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Integrated Services Digital
Network Conformance Testing

Layer 2—Data Link Layer (LAPD)

Part 1—Basic Rate Interface, User Side



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Integrated Services Digital Network Conformance Testing Layer 2—Data Link Layer (LAPD) Part 1—Basic Rate Interface, User Side

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ISDN Conformance Testing

Layer 2 -- Data Link Layer (LAPD)

Part 1: Basic Rate Interface, User Side

ABSTRACT

This document defines the abstract test specifications to verify conformance of equipment to the Layer 2, Data Link Layer, Link Access Procedure on the D Channel (LAPD) of an Integrated Services Digital Network (ISDN) at the user-side of the user-network interface, for the Basic Rate Interface (BRI) access arrangements, as defined in the International Telegraph and Telephone Consultative Committee (CCITT) Recommendation Q.921 and American National Standard ANS T1.602. The test scripts are written in the internationally standardized Tree and Tabular Combined Notation, TTCN. These tests were developed, internationally harmonized, and approved by members of the North American ISDN Users' Forum (NIU/91-0012).

KEYWORDS

Abstract Test Suite, Basic Rate Interface, BRI, Conformance Testing, Implementation Under Test, IUT, ISDN, LAPD, Protocol Data Unit, PDU, Protocol Implementation Conformance Statement, PICS, Protocol Extra Information for Testing, PIXIT, Tree and Tabular Combined Notation, TTCN

PREFACE

This document is one of a group of NIST Special Publications that will be issued on Integrated Services Digital Network (ISDN) Conformance Testing. Each publication in this group will focus on a different set of conformance test specifications. The following is a list of the publications in this group:

- Integrated Services Digital Network (ISDN) Conformance Testing —
Introduction - This document discusses the basic concepts of conformance testing and the development of abstract test specifications for conformance testing of ISDN protocols.
- Integrated Services Digital Network (ISDN) Conformance Testing —
Layer 1 — Physical Layer
 - Part 1 Basic Rate S/T Interface, User Side describes a set of test specifications which verify conformance of TEs and NTs to the ISDN Physical Layer Basic Access at the S/T reference point, as defined in ANS T1.605-1989, and NIUF 90-105.
 - Part 2 Basic Rate U Interface, User Side describes a set of test specifications which verify equipment implementation conformance to the ISDN Physical Layer Basic Access at the U interface, as defined in ANS T1.601-1988 and NIUF 90-101.
 - Part 3 Primary Rate Interface, User Side describes a set of test specifications which verify equipment implementation conformance to the ISDN Physical Layer Primary Access at the S, T, and U interface, as defined in ANS T1.408-1990 and the corresponding NIUF Implementation Agreement.
- Integrated Services Digital Network (ISDN) Conformance Testing —
Layer 2 — Data Link Layer, Link Access Procedure on the D Channel (LAPD)
 - Part 1 Basic Rate Interface, User Side defines the abstract test specifications to verify equipment implementation conformance to the Layer 2 of an ISDN at the user-network interface, for the BRI access arrangements, as defined in ANS T1.602-1989 and NIUF 90-210.
 - Part 2 Primary Rate Interface, User Side will define the abstract test specifications to verify equipment implementation conformance to the Layer 2 of an ISDN at the user-network interface, for the PRI access arrangements, as defined in ANS T1.602-1989 and the corresponding NIUF Implementation Agreement.
- Integrated Services Digital Network (ISDN) Conformance Testing —
Layer 3 — Network Access Layer
 - Part 1 Basic Rate Interface Circuit Switch Call Control, User Side defines the abstract test specifications to verify equipment implementation conformance to the Layer 3 of an ISDN BRI at the user-network interface for the Basic Call Control Procedures, as defined by ANS T1.607-1990, NIUF 90-301.
 - Part 2 Primary Rate Interface Circuit Switch Call Control, User Side defines the abstract test specifications to verify equipment implementation conformance to the Layer 3 of an ISDN PRI at the user-network interface for the Basic Call Control Procedures, as defined by ANS T1.607-1990, NIUF 90-302.

- Part 3 Packet Switched Call Control will define the abstract test specifications to verify equipment implementation conformance to the Layer 3 of an ISDN at the user-network interface for the Packet Switched Call Control Procedures, as defined by ANS T1.608-1990, NIUF 90-320, and other corresponding NIUF Implementation Agreements.

- Integrated Services Digital Network (ISDN) Conformance Testing —
 Supplementary Services - This document will define the abstract test specifications to verify implementation conformance to the Supplementary Services at the user-network interface, as defined in ANS T1.610-1990, NIUF 90-311, and other appropriate ANS documents and their corresponding NIUF Implementation Agreements.

- Integrated Services Digital Network (ISDN) Conformance Testing —
 Packet Mode Bearer Services Control Procedures - This publication will define the abstract test specifications to verify implementation conformance to the Packet Mode Bearer Services Control Procedures.

- Integrated Services Digital Network (ISDN) Conformance Testing —
 Terminal Adaption - This document will define the abstract test specifications to verify equipment implementation conformance to the ISDN Circuit-Mode Data Terminal Adaption using Statistical Multiplexing, as defined by ANS T1.612-1990 and the corresponding NIUF Implementation Agreement.

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THIS DOCUMENT CONTAINS NIUF CONFORMANCE TESTS AS AGREED AMONG PARTICIPATING EXPERT TECHNICAL PERSONNEL ACCORDING TO THE TEXTS OF ISDN STANDARDS, CONFIGURATIONS AND DESCRIPTIONS THAT ARE INTENDED TO PROMOTE INTEROPERABILITY AND EFFICIENCY. THESE CONFORMANCE TESTS WERE DEVELOPED AND APPROVED BY ORGANIZATIONS PARTICIPATING IN THE NORTH AMERICAN ISDN USERS' FORUM (NIUF) MEETINGS. NEITHER THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) NOR ANY OF THE PARTICIPANTS IN THE NIUF MAKE ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO THE SUFFICIENCY, ACCURACY, OR USE OF ANY INFORMATION OR OPINION CONTAINED HEREIN. THE USE OF THIS INFORMATION OR OPINION IS AT THE RISK OF THE USER. UNDER NO CIRCUMSTANCES SHALL NIST, OR ANY PARTICIPANT IN THE NIUF BE LIABLE FOR ANY DAMAGE OR INJURY INCURRED BY ANY PERSON ARISING OUT OF THE SUFFICIENCY, ACCURACY, OR USE OF ANY INFORMATION OR OPINION CONTAINED HEREIN.

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1 GENERAL

This document defines the abstract test specifications to verify equipment implementation conformance to the Layer 2, Data Link Layer, Link Access Procedure on the D Channel (LAPD) of an ISDN at the user-side of the user-network interface, for the BRI access arrangements, as defined in the International Telegraph and Telephone Consultative Committee (CCITT) Recommendation Q.921 [1] and ANS T1.602 [2]. The test scripts are written in the internationally standardized Tree and Tabular Combined Notation, TTCN. This test suite aligns with the principles defined in OSI Conformance Testing Methodology and Framework, Recommendations X.290 to X.294, inclusive [3].

Section 1 describes the scope and field of application, describes the relationship of this test suite to the CCITT test suite, and contains definitions. Section 2 contains general aspects of testing and the Protocol Implementation Extra Information for Testing (PIXIT) proforma. Section 3 contains abbreviations used in this test suite. Section 4 contains the Abstract Test Suite, including test suite overview, declarations, constraints, and the dynamic part containing the test scripts.

1.1 Scope and Field of Application

The LAPD abstract test suite for conformance testing is based on Recommendation Q.921 [1]. The Implementation Under Test (IUT) is the user's side implementation of LAPD. The System Under Test (SUT) is functionally a Customer Premises Equipment (CPE), a Terminal Equipment of type 1 (TE1) or a Terminal Adapter (TA).

The test methodology is the "remote single layer embedded testing" as described in Recommendation X.291 [3]. It is possible that the entire test suite is not applicable for all IUTs. A test selection procedure must be performed to determine the test's applicability to a particular IUT. Selection shall be based on the Protocol Implementation Conformance Statement (PICS) and the Protocol Implementation Extra Information for Testing (PIXIT). In doing such a selection, interoperability among ISDN equipment shall be of prime importance. The abstract test cases contained in this document are a comprehensive reflection of the base standards.

This abstract test suite only tests a single TE1 link and assumes that the IUT only supports a single TE1 link. If more than one TE1 link is supported by the IUT, the test implementor must take actions to filter out messages generated by the TE1 links which are not under test.

1.2 Relationship to the CCITT Test Suite

The test suite described herein is intended for use by all members of the North American ISDN Users' Forum (NIUF). This test suite was first developed by members of the NIUF's ISDN Conformance Test (ICOT) expert group for Abstract Conformance Testing for Layers 2 and 3 (ACT23). It was submitted to the International Telegraph and Telephone Consultative Committee (CCITT) by ICOT members in 1989 and was further harmonized by both CCITT and the NIUF. This test suite aligns with the current version of the abstract test suite in CCITT for testing conformance to CCITT Recommendation Q.921 for user-side equipment for basic rate access. The test suite in CCITT was pending final approval as of publication time of this document. It is expected that the proposed CCITT Recommendation Q.921bis Part I will be adopted as the standard for testing user-side equipment on the LAPD Basic Rate access in North America.

In the interim for North America, this test suite applies, with the exception of most test cases in the SYSTEM group, which cover the European network attachment requirements specified as NET3. These specific test cases are listed in section III.2 in Appendix III for test case selection and are included for

informational purposes only. While these NET3 test cases conform to the CCITT Recommendation Q.921, they are not required for testing in North America.

1.3 Definitions

This test suite uses valid, invalid, and inopportune frames to test the IUT behavior. These terms are defined as follows:

1.3.1 Valid Frames

A valid frame is an expected frame which arrives at the correct state or phase and does not belong to any of the categories listed under invalid frames.

1.3.2 Invalid Frames

An invalid frame, as defined in CCITT Recommendation Q.921 [1], is a frame which

- a) is not properly bounded by two flags; or
- b) has fewer than six octets between flags of frames that contain sequence numbers and fewer than five octets between flags of frames that do not contain sequence numbers; or
- c) does not consist of an integral number of octets prior to zero bit insertion or following zero bit extraction; or
- d) contains a frame check sequence error; or
- e) contains a single octet address field; or
- f) contains a service access point identifier which is not supported by the receiver.

Currently, test cases for some of the above invalid frames are not included in this document. Additional test cases for the following types of frames have been written and included under this grouping.

- a) Supervisory and Unnumbered frames (except XID frame) which are too long;
- b) Undefined command and response frames (error in the control field);
- c) Frames where the information field is not permitted.

1.3.3 Inopportune Frames

An inopportune frame is a syntactically valid frame arriving at a time (IUT's state) when it should be considered irrelevant by the IUT.

2 GENERAL ASPECTS OF TESTING

As per CCITT Recommendations X.290 and X.291 [3], "a complete and independent specification of the actions required to achieve a specific test purpose" is called an abstract test case. The abstract test cases

for LAPD are defined at the level of abstraction of remote single layer embedded testing methodology. The test cases, along with the test body, include a preamble and a postamble, which are defined below, to ensure starting and ending in a stable state and involve one or more consecutive or concurrent connections. However, as per CCITT Recommendation X.291 [3], it can be useful to use other stable states for starting and ending abstract test cases, in order to concatenate test cases in a manner which permits efficient execution.

2.1 Test Groups and Subgroups

ISDN LAPD test cases have been grouped into three major groups:

- 1) Management (MGMT);
- 2) Multiple Frame Operation (MFO);
- 3) System (SYSTEM).

The first group (MGMT) consists of test cases covering the IUT's TEI management procedures in States 1 through 3, and instances in States 4-8 in which an error recovery results in setting the MDL-ERROR primitive by the IUT. The test cases in the Management Group are referenced as LAPD/MGMT/DM_x_Lij, where "x" denotes the IUT's state (1-8), followed by a letter "L", which is set to "V", "N", or "I", denoting valid, invalid (not valid) or inopportune sub-groupings, respectively, as indicated below; and "ij" denoting the test case number.

The second group (MFO) includes test cases for States 4 through 8. The bulk of the test cases falls into this group. The test cases in this group are referenced as LAPD/MFO/sx/DL_x_Lij, where "x" denotes the IUT's State (4-8), in both the state sub-group, "sx", and in the test case reference, DL_x_Lij. The letters "L" and "ij", are defined above.

The MGMT and MFO test groups are further divided into three sub-groups according to the definitions above and are as follows:

- Sub-group 1 involves those test cases where the tester transmits a valid test frame;
- Sub-group 2 involves those test cases where the tester transmits an invalid test frame;
- Sub-group 3 involves those test cases where the tester transmits an inopportune test frame.

The third group (SYSTEM) is designed to test frames defined in § 1.2.2 for correctness of the IUT's system parameters and window rotation. The test cases in this group are referenced as LAPD/SYSTEM/DS_x_Lij, where "x" denotes the IUT's State, and "L", "ij" are defined as above.

2.2 Preamble

The preamble of a test case consists of the steps required to bring the IUT to the appropriate initial state. There may be alternate sequences of test steps which can be performed to initialize the IUT. These test steps in the preamble for LAPD have been chosen carefully, considering the test methodology and the other test coordination procedures that are available. In general, it is preferred that these steps be built on an "idle state" which is stable and "most likely" under many testing situations.

The bulk of the test suite tests the IUT's behavior in multiple frame operations. Choosing the *TEI-unassigned* state (State 1) as the "idle state," upon which a preamble is built, would result in unnecessary and sometimes lengthy TEI assignment procedures. Also, the IUT, depending upon the TEI value it supports, may not present itself in the *TEI-unassigned* state. In view of this, the preferred "idle state" for the entire test suite covering multiple frame operations is the *TEI-assigned* state (State 4). The alternative, whenever State 4 is not feasible, is the *multiple-frame-established* (MFE) state (State 7.0). Therefore, preambles may be different for different IUTs, depending upon the choice of idle state.

The selection of "idle state" is determined by the PIXIT and is applied to the entire test suite, except for States 1.0 and 2.0.

2.3 Test Body

The test body is the sequence of steps within a test case that is essential to achieve the test purpose, followed by the verification of the IUT's ending state. A verdict of Pass (P), Fail (F), or Inconclusive (I) is assigned to the possible outcomes of the test cases.

It is important to test the observable behavior of the IUT, which includes state transitions and protocol data unit (PDU) responses. If one assumes that all states are implemented, it is not possible to obtain unique traces or signatures which would guarantee that the IUT is in the expected state. Also, many of the LAPD states are transitional and may not be implemented.

The constraint references specify the frames which are sent and received by the IUT. The basic naming convention for these references is:

FrameType / P or F bit (0 or 1) / _ / User(U) or Network(N) / Command(C) or Response(R).

For example, DM1_UC denotes a DM frame with a P/F bit = 1, sent by the User, and is a Command frame.

2.4 Postamble

At the end of the execution of a test body, the IUT may not be in an "idle state." A postamble is required to bring the IUT from the ending state to an "idle state."

For multiple frame operations, as mentioned previously, the "idle state" is either State 4 or 7.0. Therefore, postamble procedures may differ for various IUTs depending on the selected "idle state."

2.5 Timer Definitions

The timer types used by the tester are T200, T202, T203, as defined in Recommendation Q.921 [1]. There are additional timers defined that may be used during dynamic conformance testing:

- a) Td: Time delay to be allowed before concluding that there is no frame response from the IUT;
- b) Topr: Time required for a test operator to initiate some test action. This is used in conjunction with an Implicit_send for test coordination;
- c) Tl: Timer used to ensure timely response from the IUT when Layer 3 messages are expected.

Some timers, for example T200, are executed synchronously both in the IUT and in the tester. Any undue transmission or processing delay on either side because of the testing environment may have an adverse

effect on the test cases which have verdicts based on timer expiry. Care should be exercised to compensate for these "delta" delays. The exact value of "delta" is a function of the testing environment and is not specified here.

2.6 Layer 2 Information Frame Content

The IUT is treated as an embedded single layer. This test suite requires the use of Layer 3 initiated Information frames. The entity above the IUT may be call control, X.25 packet layer, or an equivalent mechanism. Therefore, the information content in Layer 2 frames may belong to any of the above protocols. However, in the context of the Layer 2 abstract test suite in this document, the Layer 2 information frame content shall not force a Layer 3 response from the upper entity.

2.7 PICS/PIXIT Relationship to the Abstract Test Suite

There are instances when the execution of a test case depends on the answer to a PICS or PIXIT question. In such instances, a boolean expression is added to the beginning of the test body, which makes the execution of the test case conditional. However, such conditional execution has no bearing on static conformance.

2.8 Test Implementation Strategies

This document, in addition to defining the abstract conformance test suite, presents strategies related to the efficient implementation of the test suite. The strategy called "the grouping method," given in Appendix A, entitled "A Method for Implementing Test Cases," describes a means for efficient implementation and maintenance of the test cases. Appendix B, entitled "A Method for Minimizing Run-Time of Test Cases," describes a method for achieving run-time efficiencies by conditional execution of the preambles and postambles based on the previous test case verdict.

Both strategies are compliant with Recommendation X.290 and X.291 [3]. They are intended to guide the implementors and should not be considered as mandatory. These two strategies do not preclude each other.

2.9 Initialization Procedures

Whenever the execution begins for an entire group of tests or for several test cases for States 4-8, in either the Management (MGMT) or Multiple Frame Operations (MFO) Group, the IUT should go through initialization procedures described in the DL_MFOINIT routine, which use the DL4_INIT and DL7_INIT routines located in the test steps library. These procedures bring the IUT to the "idle state" (state 4 or 7) based upon the PIXIT. If the IUT cannot be forced to send a TEI_ID_REQUEST on demand, as required in the initialization procedures, then a manual initialization procedure must be performed to bring the IUT into the desired "idle state."

The procedure represented by DL_MFOINIT is intended only as an illustrative example of one implementation of the initialization procedure. Due to variations in the behavior of IUTs, it may be necessary for the implementor to either modify the procedure or provide a unique replacement for DL_MFOINIT to permit the IUT to be placed in the appropriate "idle state."

2.10 PIXIT Proforma

Information supplied by the IUT provider in this section will be used to configure the tester to execute the conformance test suite.

**Protocol Implementation Extra Information for Testing
PIXIT Proforma for ISDN D-Channel, Layer 2
Basic Rate Access, User Side**

Copyright release for PIXIT proformas

Users of this document may freely reproduce the PIXIT proforma in this document, so that it may be used for its intended purpose and may further publish the completed PIXIT.

Identification summary

PIXIT Number:

Means of Testing:

Test Laboratory Name:

Date of Issue:

Issued to:

Abstract test suite summary

Protocol Standard:

ISDN D-channel Layer 2 Basic Access User side

Recommendation:

CCITT Recommendation Q.921

ATS Standard:

Abstract Test Method:

Remote single layer

Test Laboratory

Test Laboratory Identification:

Test Laboratory Manager:

Network Address(es):

Instructions for Completion:

Client

Client Identification:

Client Test Manager:

Test Facilities Required:

IUT

Name:

Version:

Machine Configuration:

Operating System Identification:

Upper Tester Identification (if any):

Upper Tester Validation Date (if appropriate):

IUT Identification:

PICS Reference for IUT:

Limitations of the IUT:

General Information

1. Is TEI assignment automatic? _____
2. TEI number to be used for testing. _____
3. If IUT is non-automatic TEI equipment, enter all TEI values assigned. _____
4. SAPI number to be used for testing. _____
5. Enter SAPI number which is currently unsupported in IUT. _____
6. Window size (k) of the IUT. _____
7. Maximum number of re-transmissions (N200) of the IUT. _____
8. Maximum number of re-transmissions TEI Identity Request (N202) of the IUT. _____

Procedural Information

9. Can the IUT be forced to send TEI Identity Request on demand? _____
10. Can the IUT be forced to send a SABME in state 4 on demand? _____
11. Can the IUT be forced to send a SABME in any state on demand? _____
12. Can the IUT be forced to send a DISC on demand? _____
13. What is the preferred idle state for the IUT for Multiple Frame Operation (States 4.0 through 8.7)? Select state 4 or 7. _____
14. If idle state is 7, can the IUT be forced to stay in state 4 for testing? _____
15. Can the IUT be forced into a busy condition on demand? _____
16. Can the IUT be forced to clear a busy condition on demand? _____
17. Can the IUT be forced to send one I frame on demand? _____
18. Can the IUT be forced to send more than one I frame on demand? _____
19. Does the IUT implement TEI Identity Verify Procedures? _____
20. Does the IUT initiate TEI Identity Verify Procedures upon receipt of an unsolicited UA received in states 4-8? _____
21. Does the IUT initiate Identity Verification or TEI removal procedure for MDL Error Indications A and B? _____

22. Does the IUT initiate Identity Verification or TEI removal procedure for MDL Error Indications G or H?

23. Is the timer T203 for link monitoring implemented?

24. Enter the values used by the IUT for the following timers:
(Enter 0 if not implemented.)

T200 _____

T202 _____

T203 _____

25. Enter the delay time (in milliseconds) for processing and transferring messages between the IUT and tester.

26. If it is necessary to have the tolerance of timer T200 tested, please specify the tolerance of your timer T200.

27. Enter the value of a timer to ensure a response from the IUT when Layer 3 messages are expected.

28. Does the IUT remove its TEI value upon receipt of an ID_Assign with Ai duplicated?

29. Is Q.931 software capability implemented (or present) in the IUT?

30. Does the IUT discard an unbounded frame if two times the longest permissible frame plus two octets are received without a flag detection?

- If yes, enter the length of a frame at which a frame is considered unbounded.

31. Does the IUT check the TEI number of the Identity assigned message received if there is no Identity check request message outstanding?

32. Does the IUT remain in the TEI unassigned state after removal of the TEI number?

3 ABBREVIATIONS

Ai	Action Indicator
ANS	American National Standard
ATS	Abstract Test Suite
BRI	Basic Rate Interface
CCITT	International Telegraph and Telephone Consultative Committee
CPE	Customer Premise Equipment
ISDN	Integrated Services Digital Network
ISO	International Organization for Standardization
IUT	Implementation Under Test
k	Window size
LAPD	Link Access Procedures on the D-channel
MFE	Multiple Frame Established
MFO	Multiple Frame Operation
MGMT	Management group
OSI	Open System Interconnection
PDU	Protocol Data Units
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation Extra Information for Testing
SUT	System Under Test
TA	Terminal Adaptor
TE1	Terminal Equipment of type 1
TEI	Terminal Endpoint Identifier
TTCN	Tree and Tabular Combined Notation
XID	Exchange Identification

REFERENCES

- [1] CCITT Recommendation Q.921, *ISDN User-Network Interface-Data Link Layer Specification*, 1992.
- [2] ANS T1.602-1989¹, *Telecommunications - ISDN - Data Link Layer Signaling Specification for Application at the User-Network Interface*.
- [3] CCITT Recommendations X.290 to X.294, inclusive, *OSI Conformance Testing Methodology and Framework for Protocol Recommendations for CCITT Applications*, 1989.

¹Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

Test Suite Overview			
Suite Name: LAPD Suite Version: 1.0 Suite Description: Q921 (1992) Annex E Suite Reference: Q921 (1992) Annex E, section 2.10. Test Method: Remote Single Layer Comments:			
Test Case Identifier	Test Case Reference		Description
DM1_V01	LAPD_MXMT_DM1_V01	0477	Verify that the IUT a) changes to TEI Assigned state (4.0) with no response, b) sends a SABME and changes to Awaiting Establishment state (5.0), or c) sends an XID frame and changes to TEI Assigned state (4.0) in response to an ID_Assigned frame with a matching R1.
DM2_V01	LAPD_MXMT_DM2_V02	0479	Verify that the IUT resends an ID_Request in response to a T202 timer expiry caused by ID_Assign sent by the tester with the R1 value unmatched to the first ID_Request.
DM3_V01	LAPD_MXMT_DM3_V04	0481	Verify that the IUT resends an ID_Request in response to a T202 timer expiry after ID_Denied sent by the tester with the R1 value matched and A1 = 127 to the first ID_Request.
DM4_V01	LAPD_MXMT_DM4_V01	0483	Verify that the IUT resends an ID_Request in response to a T202 timer expiry caused by ID_Denied sent by the tester with the R1 value unmatched and A1

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Test Case Identifier	Test Case Reference		Description
DM5_V01	LAPD_MXMT_DM5_V01	0485	= 127 to the first ID_Request. Verify that the IUT responds with a second ID_Request (different R1) to a T202 Timeout Condition in TEI Unassigned state (1.0).
DM6_V01	LAPD_MXMT_DM6_V01	0487	Verify that the IUT transmits at least N202 ID Requests (different R1) to T202 Timeout Conditions in TEI Unassigned state (1.0).
DM7_V01	LAPD_MXMT_DM7_V01	0489	Verify that the IUT does not respond to an ID_Check Request with A1 in the Automatic Range (64 - 126) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).
DM8_V01	LAPD_MXMT_DM8_V01	0490	Verify that the IUT does not respond to an ID_Check Request with A1 in the Non-automatic Range (0-63) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).
DM9_V01	LAPD_MXMT_DM9_V01	0491	Verify that the IUT does not respond to an ID_Remove with A1=127 in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).
DM10_V01	LAPD_MXMT_DM10_V01	0492	Verify that the IUT does not respond to an ID_Remove with A1 in the non-automatic TEI range (0-63) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).

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Test Case Identifier	Test Case Reference		Description
DM10_V15	LAPD/MGMT/DM10_V15	0493	Verify that the IUT does not respond to an ID_Assign with A1 in the automatic range (64-126) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).
DM10_V17	LAPD/MGMT/DM10_V17	0494	Verify that the IUT does not respond to an ID_Remove with A1 value in automatic range (64-126) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).
DM10_I01	LAPD/MGMT/DM10_I01	0495	Verify that the IUT responds with a second ID_Request (different R1#) to an ID_Check_Request (with A1=127) in TEI Unassigned state (1.0).
DM10_I02	LAPD/MGMT/DM10_I02	0496	Verify that the IUT responds with a second ID_Request (different R1#) to an ID_remove (non matching A1) in TEI Unassigned state (1.0).
DM10_I03	LAPD/MGMT/DM10_I03	0497	Verify that the IUT does not respond to an ID_Check_Request (A1=127) received in TEI Unassigned state (1.0).
DM10_N01	LAPD/MGMT/DM10_N01	0498	Verify that the IUT resends an ID_Request in response to a T202 timer expiry caused by an UNDEFINED frame sent in response to the first ID_Request.
DM10_N02	LAPD/MGMT/DM10_N02	0500	Verify that the IUT responds with a second

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Test Case Identifier	Test Case Reference		Description
DM10_N03	LAPD/MGMT/DM10_N03	0502	ID_Request (different R1#) to an ID_Assign with an invalid management entity identifier in TEI Unassigned state (1.0). Verify that the IUT responds with a second ID_Request (different R1#) to an ID_Assign with an invalid SAPI (62) in TEI Unassigned state (1.0).
DM10_N04	LAPD/MGMT/DM10_N04	0504	Verify that the IUT responds with a second ID_Request (different R1#) to an ID_Assign with an invalid TEI (126) in TEI Unassigned state (1.0).
DM10_N05	LAPD/MGMT/DM10_N05	0506	Verify that the IUT responds with a second ID_Request (different R1#) to a UI frame with valid management entity identifier, but with undefined message type, in TEI Unassigned state (1.0).
DM20_V07	LAPD/MGMT/DM20_V07	0507	Verify the accuracy of the IUT's T202 timer (minimum time between the transmission of TEI ID_Request messages).
DM20_V08	LAPD/MGMT/DM20_V08	0508	Verify the value of the IUT's N202 counter (maximum number of TEI ID_Request messages).
DM20_V10	LAPD/MGMT/DM20_V10	0509	Verify that the IUT does not respond to an ID_Check_Request with the A1 set to a non automatic TEI value. The IUT is expected to remain in

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Test Case Identifier	Test Case Reference	Description
DM20_V12	LAPD/MGMT/DM20_V12	0510 Assign Awaiting TEI state (2.0). Verify that the IUT ignores an ID_Remove with Ai=127 received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DM20_V13	LAPD/MGMT/DM20_V13	0511 Verify that the IUT ignores an ID_Remove with the Ai set to an automatic TEI value received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DM20_V14	LAPD/MGMT/DM20_V14	0512 Verify that the IUT ignores an ID_Remove with the Ai set to a non-automatic TEI value received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DM20_V15	LAPD/MGMT/DM20_V15	0513 Verify that the IUT adopts the TEI contained in the Ai of an ID_Assigned frame when it is set to an automatic TEI value. The IUT is expected to enter the TEI Assigned state (4.0).
DM20_ID1	LAPD/MGMT/DM20_ID1	0514 Verify that the IUT does not respond to an ID_Check_Request with Ai=127 received in Assign Awaiting TEI state (2.0). The IUT is

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Test Case Identifier	Test Case Reference	Description
DM40_N01	LAPD/MGMT/DM40_N02	0515 expected to remain in Assign Awaiting TEI state (2.0). Verify that the IUT ignores an ID_Denied with an invalid Ri received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DM40_V01	LAPD/MGMT/DM40_V01	0516 Verify that an IUT with Automatic TEI either 1) sends an ID_Verify, 2) does not respond, or 3) removes the TEI, in response to an ID_Assign with Ai duplicated in TEI Assigned state (4.0).
DM40_V02	LAPD/MGMT/DM40_V02	0517 Verify that the IUT does not respond to an ID_Assign with non-matching Ai received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V03	LAPD/MGMT/DM40_V03	0518 Verify that the IUT sends a second ID_Verify after receiving no response to its first ID_Verify. The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V04	LAPD/MGMT/DM40_V04	0520 Verify that the IUT removes a TEI after receiving no response to two ID_Verify management frames sent by the IUT. The IUT should remove the TEI

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Test Case Identifier	Test Case Reference		Description
DM40_V05	LAPD/MGMT/DM40_V05	0522	and enter TEI Unassigned state (1.0). Verify that the IUT sends an ID_Check_Resp nse in response to a ID _Check_Request with the AI value matched received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V06	LAPD/MGMT/DM40_V06	0523	Verify that the IUT sends an ID_Check_Resp nse in response to a ID _Check_Request with the TEI = 127 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V07	LAPD/MGMT/DM40_V07	0524	Verify that the IUT sends an ID_Check_Resp nse in response to a ID _Check_Request (AI Matching). The ID_Check _Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V08	LAPD/MGMT/DM40_V08	0525	Verify that the IUT sends an ID_Check_Resp nse in response to a ID _Check_Request (TEI = 127). The ID_Check_Requ est was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V09	LAPD/MGMT/DM40_V09	0526	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DM40_V10	LAPD/MGMT/DM40_V10	0529	sends an ID_Check_Resp nse in response to a ID _Check_Request. The IUT's TEI value is within the list of AI values specified in the request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V11	LAPD/MGMT/DM40_V11	0530	Verify that the IUT sends an ID_Verify in response to a ID_Check Request (TEI=127). The IUT's TEI value is NOT in the list of AI values specified in request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).
DM40_V12	LAPD/MGMT/DM40_V12	0531	Verify that the IUT responds to an ID_Remove with TEI value = IUT's TEI value in TEI Assigned state (4.0). The IUT is expected to enter TEI Unassigned state (1.0).
DM40_V13	LAPD/MGMT/DM40_V13	0532	Verify that the IUT either sends an

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Test Case Identifier	Test Case Reference	Description
DM40_V14	LAPD/MGMT/DM40_V14	0534
DM40_I01	LAPD/MGMT/DM40_I01	0535
DM40_I03	LAPD/MGMT/DM40_I03	0536
DM40_I04	LAPD/MGMT/DM40_I04	0537

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Test Case Identifier	Test Case Reference	Description
DM40_V01	LAPD/MGMT/DM40_V01	0538
DM40_I01	LAPD/MGMT/DM40_I01	0539
DM40_I02	LAPD/MGMT/DM40_I02	0540
DM40_I03	LAPD/MGMT/DM40_I03	0541
DM40_I04	LAPD/MGMT/DM40_I04	0542
DM40_V01	LAPD/MGMT/DM40_V01	0543

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1. *Journal of the American Medical Association*, 1997; 277: 1027-1031.

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Test Case Identifier	Test Case Reference	Description
DM60 V06	LAPD/MGMT/DM60_V06	0578
DM60 V07	LAPD/MGMT/DM60_V07	0579
DM60 V08	LAPD/MGMT/DM60_V08	0580
DM60 V09	LAPD/MGMT/DM60_V09	0581
DM60 V10	LAPD/MGMT/DM60_V10	0582
DM60 V11	LAPD/MGMT/DM60_V11	0583
DM60 V12	LAPD/MGMT/DM60_V12	0584

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Test Case Identifier	Test Case Reference	Description
DM60 V06	LAPD/MGMT/DM60_V06	0583
DM60 V07	LAPD/MGMT/DM60_V07	0584
DM60 V08	LAPD/MGMT/DM60_V08	0585
DM60 V09	LAPD/MGMT/DM60_V09	0586
DM60 V10	LAPD/MGMT/DM60_V10	0587
DM60 V11	LAPD/MGMT/DM60_V11	0588
DM60 V12	LAPD/MGMT/DM60_V12	0589

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Test Case Identifier	Test Case Reference	Description
DM60_V13	LAPD/MGMT/DM60_V13	0589
DM60_V14	LAPD/MGMT/DM60_V14	0591
DM60_V15	LAPD/MGMT/DM60_V15	0593

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Test Case Identifier	Test Case Reference	Description
DM60_I01	LAPD/MGMT/DM60_I01	0594
DM60_I02	LAPD/MGMT/DM60_I02	0595
DM60_I03	LAPD/MGMT/DM60_I03	0596
DM60_I04	LAPD/MGMT/DM60_I04	0597
DM60_I05	LAPD/MGMT/DM60_I05	0598

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Test Case Identifier	Test Case Reference	Description
...	...	Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
...	LAND/MGMT/DM60_N02	0599 Verify that the IUT does not respond to an ID_Check_Request with an invalid SAPI(62) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
...	LAND/MGMT/DM60_N03	0600 Verify that the IUT does not respond to an ID_Check_Request with an invalid TEI (126) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
...	LAND/MGMT/DM60_N04	0601 Verify that the IUT does not respond to a UI frame with valid management identifier, but with an undefined message type, received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
...	LAND/MGMT/DM60_N01	0602 Verify that an Automatic TEI either 1) sends an ID_Verify, or 2) removes TEI to an ID Assign with A1 duplicated in Multiple Frame Established state (7.0).
...	LAND/MGMT/DM60_N02	0603 Verify that the IUT does not respond to an ID_Assign with

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Test Case Identifier	Test Case Reference	Description
...	...	nonmatching A1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
...	...	0604 Verify that the IUT sends a second ID_Verify after receiving no response to its first ID_Verify. The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70	LAPD/MGMT/DM70_N04	0606 Verify that the IUT removes a TEI after receiving no response to two ID_Verify management frames sent by the IUT. The IUT is expected to enter TEI Unassigned state (1.0).
...	...	0608 Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request with the A1 value matched received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
...	...	0609 Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request with the TEI value - 127 in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
# DM70_V07 # # # # # # # #	LAPD/MGMT/DM70_V07	0610	Frame Established state (7.0). Verify that the IUT sends an ID_Check_Response in response to an ID_Check_Request (AI matching). The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Multiple Frame Established state (7.0).
# DM70_V08 # # # # # # #	LAPD/MGMT/DM70_V08	0611	Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request (TEI = 127). The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Multiple Frame Established state (7.0).
# DM70_V09 # # # # # # # # # # #	LAPD/MGMT/DM70_V09	0613	Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request. The IUT's TEI value is within the list of AI values specified in request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Multiple Frame Established state (7.0).
# DM70_V10 #	LAPD/MGMT/DM70_V10	0612	Verify that the IUT sends an ID_Verify in response to a ID_Check

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Test Case Identifier	Test Case Reference		Description
# # # # # # # # # # #			Request. The IUT's TEI value is NOT within specified list in request). The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Multiple Frame Established state (7.0).
# DM70_V11 # # # # #	LAPD/MGMT/DM70_V11	0616	Verify that the IUT removes its TEI in response to an ID_Remove with TEI value = 127 in Multiple Frame Established state (7.0).
# DM70_V12 # # # # # # #	LAPD/MGMT/DM70_V12	0617	Verify that the IUT responds to an ID_Remove with AI value = IUT's TEI value in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Unassigned state (1.0).
# DM70_V13 # # # # # # # # # # #	LAPD/MGMT/DM70_V13	0618	Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA (F=1) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0).
# DM70_V14 #	LAPD/MGMT/DM70_V14	0620	Verify that the IUT sends an ID_Verify or

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Test Case Identifier	Test Case Reference		Description
DM70_I01	LAPD/MGMT/DM70_I01	0621	removes TEI in response to an unsolicited UA (F=0). The IUT is expected to remain in Multiple Frame Established state (7.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0). Verify that the IUT does not respond to an ID_Denied with A1 = 127 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_I03	LAPD/MGMT/DM70_I03	0622	Verify that the IUT does not respond to an ID_Check Request with non-matching TEI received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_I04	LAPD/MGMT/DM70_I04	0623	Verify that the IUT does not respond to an ID_Remove with non-matching A1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_N01	LAPD/MGMT/DM70_N01	0624	Verify that the IUT does not respond to an

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Test Case Identifier	Test Case Reference		Description
DM70_N02	LAPD/MGMT/DM70_N02	0625	ID_Check Request with an invalid management identifier received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Verify that the IUT does not respond to an ID_Check Request with an invalid SAPI (62) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_N03	LAPD/MGMT/DM70_N03	0626	Verify that the IUT does not respond to an ID_Check Request with an invalid TEI Address (126) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_N04	LAPD/MGMT/DM70_N04	0627	Verify that the IUT does not respond to a UI frame with a valid management entity identifier, but with an undefined message type, in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DM70_V01	LAPD/MGMT/DM70_V01	0628	Verify that an IUT supporting automatic

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Test Case Identifier	Test Case Reference	Description
DM74_V13	LAPD/MGMT/DM74_V13	0629
DM74_V14	LAPD/MGMT/DM74_V14	0630
DM74_V15	LAPD/MGMT/DM74_V15	0631

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Test Case Identifier	Test Case Reference	Description
DM80_V01	LAPD/MGMT/DM80_V01	0632
DM80_V02	LAPD/MGMT/DM80_V02	0633
DM80_V03	LAPD/MGMT/DM80_V03	0636
DM80_V04	LAPD/MGMT/DM80_V04	0638
DM80_V05	LAPD/MGMT/DM80_V05	0640
DM80_V06	LAPD/MGMT/DM80_V06	0641

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Test Case Identifier	Test Case Reference		Description
DM80_V07	LAPD/MGMT/DM80_V07	0642	Timer Recovery state (8.0). Verify that the IUT sends an ID_Check_Response in response to a ID_Check Request (AI matching). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0).
DM80_V08	LAPD/MGMT/DM80_V08	0644	Verify that the IUT sends an ID_Check_Response or in response to a ID_Check Request (TEI = 127). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0).
DM80_V09	LAPD/MGMT/DM80_V09	0646	Verify that the IUT sends an ID_Check_Response in response to a ID_Check Request. The IUT's TEI value is within the list of AI values specified in request. The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0).
DM80_V10	LAPD/MGMT/DM80_V10	0648	Verify that the IUT sends an ID_Verify in response to a ID_Check Request. The IUT's TEI value is NOT within the specified list in the

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Test Case Identifier	Test Case Reference		Description
DM80_V11	LAPD/MGMT/DM80_V11	0649	request). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0). Verify that the IUT removes its TEI in response to an ID_Remove with TEI value = 127 in Timer Recovery state (8.0).
DM80_V12	LAPD/MGMT/DM80_V12	0650	Verify that the IUT responds to an ID_Remove with AI value = IUT's TEI value in Timer Recovery state (8.0). The IUT is expected to enter TEI Unassigned state (1.0).
DM80_V13	LAPD/MGMT/DM80_V13	0651	Verify that the IUT sends an ID_Verify or removes a TEI in response to an unsolicited UA (F=1) in Timer Recovery state (8.0). The IUT is expected to remain in Timer Recovery state (8.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0).
DM80_V14	LAPD/MGMT/DM80_V14	0653	Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA (F=0). The IUT is expected to remain in Timer Recovery state (8.0) or, when TEI is

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1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815

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Test Case Identifier	Test Case Reference	Description
DL40_V04	LAPD/MFO/S40/DL40_V04	0680 (4.0). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1. Verify that the IUT sends either a UA/F=1 or a DM/F=1 in response to a SABME/P=1 received in TEI Assigned state (4.0). The IUT is expected to be either in Multiple Frame Established state (7.0) or TEI Assigned state (4.0) after sending the response.
DL40_V06	LAPD/MFO/S40/DL40_V06	0681 Verify that the IUT sends either a UA/F=0 or a DM/F=0 in response to a SABME/P=0 received in TEI Assigned state (4.0). The IUT is expected to be either in Multiple Frame Established state (7.0) or TEI Assigned state (4.0) after sending the response.
DL40_V08	LAPD/MFO/S40/DL40_V08	0682 Verify that the IUT sends a DM/F=1 in response to a DISC/P=1 received in TEI Assigned state (4.0). The IUT is expected to be in TEI Assigned state (4.0) after sending the response.
DL40_V09	LAPD/MFO/S40/DL40_V09	0683 Verify that the IUT sends a DM/F=0 in response to a DISC/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned

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Test Case Identifier	Test Case Reference	Description
DL40_I01	LAPD/MFO/S40/DL40_I01	0684 state (4.0) after sending DM/F=0. Verify that the IUT ignores a DM/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I02	LAPD/MFO/S40/DL40_I02	0685 Verify that the IUT sends either a SABME/P=1 or no direct response to a DM/F=0 received in TEI Assigned state (4.0). The IUT is expected to be either in Awaiting Establishment state (5.0) or in TEI Assigned state (4.0) after response.
DL40_I03	LAPD/MFO/S40/DL40_I03	0686 Verify that the IUT sends no direct response to a DM/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I04	LAPD/MFO/S40/DL40_I04	0687 Verify that the IUT sends no direct response to a RRMR/F=1 (rejecting a DM) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I05	LAPD/MFO/S40/DL40_I05	0688 Verify that the IUT sends no direct response to a RR/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned

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Test Case Identifier	Test Case Reference		Description
DL40_I04	LAPD/MFO/S40/DL40_I04	0689	state (4.0). Verify that the IUT sends no direct response to a RR/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I05	LAPD/MFO/S40/DL40_I05	0690	Verify that the IUT sends no direct response to a RR/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I06	LAPD/MFO/S40/DL40_I06	0691	Verify that the IUT sends no direct response to a RR/F=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I07	LAPD/MFO/S40/DL40_I07	0692	Verify that the IUT sends no direct response to a REJ/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I08	LAPD/MFO/S40/DL40_I08	0693	Verify that the IUT sends no direct response to a REJ/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I09	LAPD/MFO/S40/DL40_I09	0694	Verify that the IUT sends no direct response to a REJ/F=1 received in TEI

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Test Case Identifier	Test Case Reference		Description
DL40_I10	LAPD/MFO/S40/DL40_I10	0695	Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Verify that the IUT sends no direct response to a REJ/F=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I11	LAPD/MFO/S40/DL40_I11	0696	Verify that the IUT sends no direct response to a RNR/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I12	LAPD/MFO/S40/DL40_I12	0697	Verify that the IUT sends no direct response to a RNR/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I13	LAPD/MFO/S40/DL40_I13	0698	Verify that the IUT sends no direct response to a RNR/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I14	LAPD/MFO/S40/DL40_I14	0699	Verify that the IUT sends no direct response to a RNR/F=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DL40_I15	LAPD/MFO/S40/DL40_I15	0700	Verify that the IUT

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Test Case Identifier	Test Case Reference	Description
#	16	sends no direct
#		response to an I frame
#		with P=1 received in
#		TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_I17	LAPD/MFO/S40/DL40_I	0701 Verify that the IUT
#	17	sends no direct
#		response to an I frame
#		with P=0 received in
#		TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_N01	LAPD/MFO/S40/DL40_N	0702 Verify that the IUT
#	01	sends no direct
#		response to a SABME/P=1
#		, with excess length,
#		received in TEI
#		Assigned state (4.0).
#		The IUT is expected to
#		remain in TEI Assigned
#		state (4.0).
DL40_N02	LAPD/MFO/S40/DL40_N	0703 Verify that the IUT
#	02	sends no direct
#		response to a DISC
#		command/P=1, with
#		excess length, received
#		in TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_N03	LAPD/MFO/S40/DL40_N	0704 Verify that the IUT
#	03	sends no direct
#		response to a RR
#		command/P=0, with
#		excess length, received
#		in TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).

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Test Case Identifier	Test Case Reference	Description
#		(4.0).
#		Verify that the IUT
#		sends no direct
#		response to a DM /F=0,
#		with excess length,
#		received in TEI
#		Assigned state (4.0).
#		The IUT is expected to
#		remain in TEI Assigned
#		state (4.0).
DL40_N05	LAPD/MFO/S40/DL40_N	0705 Verify that the IUT
#	05	sends no direct
#		response to a RR
#		command/P=0, with
#		excess length, received
#		in TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_N06	LAPD/MFO/S40/DL40_N	0706 Verify that the IUT
#	06	sends no direct
#		response to a RR
#		command/P=1, with
#		excess length, received
#		in TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_N07	LAPD/MFO/S40/DL40_N	0707 Verify that the IUT
#	07	sends no direct
#		response to a RNR
#		command/P=1, with
#		excess length, received
#		in TEI Assigned state
#		(4.0). The IUT is
#		expected to remain in
#		TEI Assigned state
#		(4.0).
DL40_N08	LAPD/MFO/S40/DL40_N	0708 Verify that the IUT
#	08	sends no direct
#		response to a REJ
#		command/P=1, with
#		excess length, received
#		in TEI Assigned state
#		(4.0).

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Test Case Identifier	Test Case Reference	Description
DL40_N09	LAPD/MFO/S40/DL40_N09	0710
DL40_N10	LAPD/MFO/S40/DL40_N10	0711
DL50_V14	LAPD/MFO/S50/DL50_V14	0712
DL50_V05	LAPD/MFO/S50/DL50_V05	0713

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Test Case Identifier	Test Case Reference	Description
DL50_V06	LAPD/MFO/S50/DL50_V06	0714
DL50_V07	LAPD/MFO/S50/DL50_V07	0715
DL50_V08	LAPD/MFO/S50/DL50_V08	0716
DL50_V10	LAPD/MFO/S50/DL50_V10	0717
DL50_V11	LAPD/MFO/S50/DL50_V11	0718

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Test Case Identifier	Test Case Reference		Description
#			response received in the Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
#			
DL50_V12	LAPD/MFO/SSO/DL50_V12	0719	Verify that after the expiry of timer T200, with N200 not exceeding the limit, the IUT sends a SABME/P=1 in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
#			
#			
DL50_N01	LAPD/MFO/SSO/DL50_N01	0720	Verify that the IUT does not send a response to a SABME/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N02	LAPD/MFO/SSO/DL50_N02	0721	Verify that the IUT does not send a response to a DISC/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N03	LAPD/MFO/SSO/DL50_N03	0722	Verify that the IUT does not send a response to a UA/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is
#			
#			
#			

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Test Case Identifier	Test Case Reference		Description
#			expected to remain in Awaiting Establishment state (5.0).
#			
DL50_N04	LAPD/MFO/SSO/DL50_N04	0723	Verify that the IUT does not send a response to a DM/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N05	LAPD/MFO/SSO/DL50_N05	0724	Verify that the IUT does not send a response to a FRMR/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N06	LAPD/MFO/SSO/DL50_N06	0725	Verify that the IUT does not send a response to an RR/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N07	LAPD/MFO/SSO/DL50_N07	0726	Verify that the IUT does not send a response to a RNR/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
#			
#			
DL50_N08	LAPD/MFO/SSO/DL50_N08	0727	Verify that the IUT does not send a
#			

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Test Case Identifier	Test Case Reference	Description
DLSC_N29	LAPD/MFO/SSO/DL50_N 09	0728 response to a REJ/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Verify that the IUT does not send a response to an I/P=1 exceeding N201 octets received in Awaiting Establishment state (5. 0). The IUT is expected to remain in Awaiting Establishment state (5. 0).
DLSC_N10	LAPD/MFO/SSO/DL50_N 10	0729 Verify that the IUT does not send a response to a frame with undefined control field received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
DLSC_N11	LAPD/MFO/SSO/DL50_N 11	0730 Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a SABME) in the Awaiting Establishment state (5. 0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DLSC_N12	LAPD/MFO/SSO/DL50_N 12	0731 Verify that the IUT does not send a response to a FRMR/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in

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Test Case Identifier	Test Case Reference	Description
DLSC_N09	LAPD/MFO/SSO/DL50_N 09	0732 the Awaiting Establishment state (5. 0). Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a DM) in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5. 0).
DLSC_N10	LAPD/MFO/SSO/DL50_N 10	0733 Verify that the IUT does not send a response to a FRMR/F=1 (rejecting an I frame) in the Awaiting Establishment state (5. 0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DLSC_N11	LAPD/MFO/SSO/DL50_N 11	0734 Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a Supervisory frame) in the Awaiting Establishment state (5. 0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DLSC_N12	LAPD/MFO/SSO/DL50_N 12	0735 Verify that the IUT does not send a response to an RR/P=1 command received in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5. 0).
DLSC_N13	LAPD/MFO/SSO/DL50_N 13	0736 Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
#	99		does not send a response to an RR/P=0 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I10	LAPD/MFO/SS0/DL50_I10	0737	Verify that the IUT does not send a response to an RR/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I11	LAPD/MFO/SS0/DL50_I11	0738	Verify that the IUT does not send a response to an RR/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I12	LAPD/MFO/SS0/DL50_I12	0739	Verify that the IUT does not send a response to an REJ/P=1 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I13	LAPD/MFO/SS0/DL50_I13	0740	Verify that the IUT does not send a response to an REJ/P=0 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).

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Test Case Identifier	Test Case Reference		Description
DL50_I14	LAPD/MFO/SS0/DL50_I14	0741	Verify that the IUT does not send a response to an REJ/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I15	LAPD/MFO/SS0/DL50_I15	0742	Verify that the IUT does not send a response to an REJ/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I16	LAPD/MFO/SS0/DL50_I16	0743	Verify that the IUT does not send a response to an RRR command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I17	LAPD/MFO/SS0/DL50_I17	0744	Verify that the IUT does not send a response to an RNR/P=0 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I18	LAPD/MFO/SS0/DL50_I18	0745	Verify that the IUT does not send a response to an RNR/P=1 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).

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Test Case Identifier	Test Case Reference		Description
DL50_I19	LAPD/MFO/S50/DL50_I 19	0746	expected to remain in the Awaiting Establishment state (5.0). Verify that the IUT does not send a response to an RNR/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I20	LAPD/MFO/S50/DL50_I 20	0747	Verify that the IUT does not send a response to an I/P=1 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL50_I21	LAPD/MFO/S50/DL50_I 21	0748	Verify that the IUT does not send a response to an I/P=0 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DL51_V06	LAPD/MFO/S51/DL51_V 06	0749	Verify that the IUT sends a UA/F=1 in response to SABME/P=1 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.
DL51_V07	LAPD/MFO/S51/DL51_V 07	0750	Verify that the IUT sends a UA/F=0 in

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Test Case Identifier	Test Case Reference		Description
DL51_V08	LAPD/MFO/S51/DL51_V 08	0751	response to SABME/P=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response. Verify that the IUT sends a DM/F=1 in response to DISC/P=1 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.
DL51_V09	LAPD/MFO/S51/DL51_V 09	0752	Verify that the IUT sends a DM/F=0 in response to DISC/P=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.
DL51_V10	LAPD/MFO/S51/DL51_V 10	0753	Verify that the IUT does not send a response to a UA/F=1 in the Awaiting Establishment state (5.1). The IUT is expected to enter Multiple Frame Established state (7.0).
DL51_V12	LAPD/MFO/S51/DL51_V 12	0754	Verify that the IUT does not send a response to DM/F=1 in the Awaiting Establishment state (5.1).

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Test Case Identifier	Test Case Reference	Description
DL51_V13	LAB M-25.11.1.13	1). The IUT is expected to enter TEI ASSIGNED state (4.0). Verify that the IUT does not send a response to the receipt of a UA/F=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Verify that after the expiry of a timer with N200 not exceeding the limit, the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_V14	LAB M-25.11.1.14	Verify that after the expiry of a timer with N200 not exceeding the limit, the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N01	LAB M-25.11.1.01	Verify that the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N02	LAB M-25.11.1.02	Verify that the IUT does not send a response to a DISC/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).

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DL51_N03	LAB M-25.11.1.03	Verify that the IUT does not send a response to a UA/F=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Verify that after the expiry of a timer with N200 not exceeding the limit, the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N04	LAB M-25.11.1.04	Verify that the IUT does not send a response to a DISC/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N05	LAB M-25.11.1.05	Verify that the IUT does not send a response to a UA/F=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Verify that after the expiry of a timer with N200 not exceeding the limit, the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N06	LAB M-25.11.1.06	Verify that the IUT does not send a response to a DISC/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N07	LAB M-25.11.1.07	Verify that the IUT does not send a response to a UA/F=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Verify that after the expiry of a timer with N200 not exceeding the limit, the IUT does not send a response to a SABME/P=1 (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).

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Test Case Identifier	Test Case Reference		Description
DL51_N08	LAPD/MFC S31 DL51_N08	0764	Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Verify that the IUT does not send a response to a REJ/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N09	LAPD/MFC S31 DL51_N09	0765	Verify that the IUT does not send a response to an I/P=1 with incorrect length (too long) (exceeding N201 octets) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N10	LAPD/MFC S31 DL51_N10	0766	Verify that the IUT does not send a response to a frame with undefined control field received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).
DL51_N12	LAPD/MFC S31 DL51_N12	0767	Verify that the IUT does not send a response to a FRMR/F=1 response in the Awaiting Establishment state. The IUT is expected to remain in the Awaiting Establishment state (5.1).

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Test Case Identifier	Test Case Reference		Description
DL51_I08	LAPD/MFC S31 DL51_I08	0768	Verify that the IUT does not send a response to a RR/P=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I09	LAPD/MFC S31 DL51_I09	0769	Verify that the IUT does not send a response to a RR/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I10	LAPD/MFC S31 DL51_I10	0770	Verify that the IUT does not send a response to a REJ/P=1 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I11	LAPD/MFC S31 DL51_I11	0771	Verify that the IUT does not send a response to a RR/F=0 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I12	LAPD/MFC S31 DL51_I12	0772	Verify that the IUT does not send a response to a REJ/P=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).

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Test Case Identifier	Test Case Reference		Description
DL51_I13	LAPD/MFO/S51/DL51_I 13	0773	to remain in the Awaiting Establishment state (5.1). Verify that the IUT does not send a response to a REJ/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I14	LAPD/MFO/S51/DL51_I 14	0774	Verify that the IUT does not send a response to a REJ/P=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I15	LAPD/MFO/S51/DL51_I 15	0775	Verify that the IUT does not send a response to a REJ/F=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I16	LAPD/MFO/S51/DL51_I 16	0776	Verify that the IUT does not send a response to a RNR/P=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I17	LAPD/MFO/S51/DL51_I 17		Verify that the IUT does not send a response to a RNR/F=1 command in the Awaiting Establishment state (5.1).

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Test Case Identifier	Test Case Reference		Description
DL51_I18	LAPD/MFO/S51/DL51_I 18		Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Verify that the IUT does not send a response to a RNR/F=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I19	LAPD/MFO/S51/DL51_I 19		Verify that the IUT does not send a response to a RNR/F=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I20	LAPD/MFO/S51/DL51_I 20		Verify that the IUT does not send a response to a I/P=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL51_I21	LAPD/MFO/S51/DL51_I 21		Verify that the IUT does not send a response to a I/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).
DL60_V04	LAPD/MFO/S60/DL60_V 04	0782	Verify that the IUT sends a DM/F=1 in

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Test Case Identifier	Test Case Reference		Description
DL60_V03	LAPD/MFO/S60/DL60_V05	0783	response to SABME/P=1 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response. Verify that the IUT sends a DM/F=0 in response to SABME/P=0 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.
DL60_V06	LAPD/MFO/S60/DL60_V06	0784	Verify that the IUT sends a UA/F=1 in response to DISC/P=1 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.
DL60_V07	LAPD/MFO/S60/DL60_V07	0785	Verify that the IUT sends a UA/F=0 in response to DISC/P=0 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.
DL60_V08	LAPD/MFO/S60/DL60_V08	0786	Verify that the IUT enters TEI Assigned state (4.0) in response to UA/F=1 received in Awaiting Release state (6.0).
DL60_V10	LAPD/MFO/S60/DL60_V09	0787	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL60_V11	LAPD/MFO/S60/DL60_V10	0788	enters TEI Assigned state (4.0) in response to DM/F=1 received in Awaiting Release state (6.0). Verify that the IUT ignores the receipt of an unsolicited DM/F=0 in Awaiting Release state (6.0). The IUT remains in the Awaiting Release state (6.0).
DL60_V12	LAPD/MFO/S60/DL60_V11	0789	Verify that after expiry of timer T200, in Awaiting Release state (6.0), with N200 not exceeding the limit, the IUT sends a DISC/P=1. The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_V13	LAPD/MFO/S60/DL60_N01	0790	Verify that the IUT does not send a response to a SABME/P=1 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
DL60_V14	LAPD/MFO/S60/DL60_N02	0791	Verify that the IUT does not send a response to a DISC/P=1 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).
DL60_V15	LAPD/MFO/S60/DL60_N03	0792	Verify that the IUT does not send a response to a UA/F=0

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Test Case Identifier	Test Case Reference	Description
DL60_103	LAPD MFO S60 DL60 I 04	0802 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0). Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a DM) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_104	LAPD MFO S60 DL60 I 04	0803 Verify that the IUT does not send a response to a FRMR/F=1 (rejecting an I frame) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_105	LAPD MFO S60 DL60 I 04	0804 Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a Supervisory frame) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_106	LAPD MFO S60 DL60 I 04	0805 Verify that the IUT does not send a response to an RR/P=1 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_107	LAPD MFO S60 DL60 I 04	0806 Verify that the IUT does not send a response to an RR/P=0 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).

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Test Case Identifier	Test Case Reference	Description
DL60_108	LAPD MFO S60 DL60 I 04	0807 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0). Verify that the IUT does not send a response to an RR/F=1 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_109	LAPD MFO S60 DL60 I 04	0808 Verify that the IUT does not send a response to an RR/F=0 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_110	LAPD MFO S60 DL60 I 04	0809 Verify that the IUT does not send a response to a REJ/P=1 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_111	LAPD MFO S60 DL60 I 04	0810 Verify that the IUT does not send a response to a REJ/P=0 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_112	LAPD MFO S60 DL60 I 04	0811 Verify that the IUT does not send a response to a REJ/F=1 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).

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Test Case Identifier	Test Case Reference	Description
DL60_I15	LAPD/MFC/S60/DL60_I15	0812 expected to remain in the Awaiting Release state (6.0). Verify that the IUT does not send a response to a REC/F=C response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_I16	LAPD/MFC/S60/DL60_I16	0813 Verify that the IUT does not send a response to an RNR/P=1 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_I17	LAPD/MFC/S60/DL60_I17	0814 Verify that the IUT does not send a response to an RNR/P=0 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_I18	LAPD/MFC/S60/DL60_I18	0815 Verify that the IUT does not send a response to an RNR/F=1 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_I19	LAPD/MFC/S60/DL60_I19	0816 Verify that the IUT does not send a response to an RNR/F=C response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).

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Test Case Identifier	Test Case Reference	Description
DL60_I20	LAPD/MFC/S60/DL60_I20	0817 Verify that the IUT does not send a response to an I/P=1 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL60_I21	LAPD/MFC/S60/DL60_I21	0818 Verify that the IUT does not send a response to an I/P=0 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DL70_V01	LAPD/MFC/S60/DL70_V01	0819 Verify that the IUT can send a SABME in the Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting state after sending SABME/P=1.
DL70_V03	LAPD/MFC/S60/DL70_V03	0820 Verify that the IUT sends an I frame when V(S)<V(A)+k (ie. window is open) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending an I frame.
DL70_V04	LAPD/MFC/S60/DL70_V04	0821 Verify that the IUT does not send an I frame (request when V(S)=V(A)+k (window is closed) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).

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Test Case Identifier	Test Case Reference	Description
DL70_V16	LAPD/MFO/S70/DL70_V08	0822 Established state after sending no response. Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.
DL70_V17	LAPD/MFO/S70/DL70_V10	0823 Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0.
DL70_V18	LAPD/MFO/S70/DL70_V12	0824 Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Assigned state after sending UA/F=1.
DL70_V19	LAPD/MFO/S70/DL70_V13	0825 Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Assigned state after sending UA/F=0.
DL70_V20	LAPD/MFO/S70/DL70_V14	0826 Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.0).

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Test Case Identifier	Test Case Reference	Description
DL70_V17	LAPD/MFO/S70/DL70_V17	0827 The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1. Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.
DL70_V20	LAPD/MFO/S70/DL70_V20	0828 Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_V21	LAPD/MFO/S70/DL70_V21	0829 Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
		0830 Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending no response.

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Test Case Identifier	Test Case Reference		Description
DL7_V23	LAPD/MFC/S7C/DL7C_V23	0831	Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after send no response.
DL7_V24	LAPD/MFC/S7C/DL7C_V24	0832	Verify that the IUT sends an RR/F=1 in response to an RR/F=1 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL7_V25	LAPD/MFC/S7C/DL7C_V25	0833	Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/P=0 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL7_V26	LAPD/MFC/S7C/DL7C_V26	0834	Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/P=0 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.

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Test Case Identifier	Test Case Reference		Description
DL7_V27	LAPD/MFC/S7C/DL7C_V27	0835	Verify that the IUT sends an RR/F=1 in response to an RR/F=1 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL7_V28	LAPD/MFC/S7C/DL7C_V28	0836	Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/P=0 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL7_V29	LAPD/MFC/S7C/DL7C_V29	0837	Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/P=0 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL7_V30	LAPD/MFC/S7C/DL7C_V30	0838	Verify that the IUT sends an RR/F=1 in response to an RR/F=1 command with V(A)<N(R) <V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL70_V31	LAPD/MFO/S70/DL70_V 31	0839	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.
DL70_V32	LAPD/MFO/S70/DL70_V 32	0840	Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.
DL70_V33	LAPD/MFO/S70/DL70_V 33	0841	Verify that the IUT sends an RR/F=1 and retransmits an I frame in response to an REJ/P=1 command with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL70_V34	LAPD/MFO/S70/DL70_V 34	0842	Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL70_V35	LAPD/MFO/S70/DL70_V 35	0843	Verify that the IUT retransmits an I frame in response to an

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Test Case Identifier	Test Case Reference		Description
DL70_V36	LAPD/MFO/S70/DL70_V 36	0844	REJ/F=0 response with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL70_V37	LAPD/MFO/S70/DL70_V 37	0845	Verify that the IUT sends a RR/F=1 in response to an RNR/F=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state after sending RR/F=1.
DL70_V38	LAPD/MFO/S70/DL70_V 38	0846	Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL70_V39	LAPD/MFO/S70/DL70_V 39	0847	Verify that the IUT sends a RR/F=1 in response to an RNR/F=1 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference	Description
DL70_V41	LAPD/MFO/S70/DL70_V41	0848 Verify that the IUT sends nothing in response to an RNR/P=0 with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL70_V43	LAPD/MFO/S70/DL70_V43	0849 Verify that the IUT does not respond to an RNR/F=0 response with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL70_V44	LAPD/MFO/S70/DL70_V44	0850 Verify that the IUT sends a RR/F=1 in response to an I frame received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL70_V45	LAPD/MFO/S70/DL70_V45	0851 Verify that the IUT sends an RR/F=0 or an I/F=0 in response to an I/P=0 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple

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4 Abstract Test Suite - Part I

LAPD Conformance Testing

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Test Case Identifier	Test Case Reference	Description
DL70_V46	LAPD/MFO/S70/DL70_V46	852 Verify that the IUT sends a REJ/F=1 in response to an I/F=1 with $N(S) < V(R)$ received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=1.
DL70_V47	LAPD/MFO/S70/DL70_V47	0853 Verify that the IUT sends a REJ/F=0 in response to an I/F=0 with $N(S) < V(R)$ received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject recovery state after sending REJ/F=0.
DL70_V48	LAPD/MFO/S70/DL70_V48	854 Verify that the IUT sends a RR/F=1 in response to an I/F=1 frame with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL70_V49	LAPD/MFO/S70/DL70_V49	0855 Verify that the IUT sends a RR/F=0 or an I/F=0 in response to an I/P=0 received with $V(A) < N(R) < V(S)$ in Multiple Frame Established state (7.0). The IUT is expected

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Test Case Identifier	Test Case Reference	Description
DL70_V50	LAPD/MFO/S70/DL70_V50	0856 to remain in Multiple Frame Established state after sending RR/F=0. Verify that the IUT sends a REJ/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=1.
DL70_V51	LAPD/MFO/S70/DL70_V51	0857 Verify that the IUT sends a REJ/F=0 in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=0.
DL70_V52	LAPD/MFO/S70/DL70_V52	0858 Verify that the IUT sends a RR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL70_V53	LAPD/MFO/S70/DL70_V53	0859 Verify that the IUT sends a RR/F=0 or an I/P=0 in response to an I/P=0 received with V(A)=N(R)<V(S) in

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Test Case Identifier	Test Case Reference	Description
DL70_V54	LAPD/MFO/S70/DL70_V54	0860 Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0 or I/P=1.
DL70_V55	LAPD/MFO/S70/DL70_V55	0861 Verify that the IUT sends a REJ/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=1.
DL70_V56	LAPD/MFO/S70/DL70_V56	0862 Verify that the IUT sends an RR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.0). The IUT is expected to enter Timer Recovery state after sending RR/P=1 or I/P=1.
DL70_V57	LAPD/MFO/S70/DL70_V57	0863 Verify that the IUT sends an RR/P=1 after a

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Test Case Identifier	Test Case Reference	Description
DL70_V58	LAPD/MFO/S70/DL70_V58	0864
DL70_N01	LAPD/MFO/S70/DL70_N01	0865
DL70_N02	LAPD/MFO/S70/DL70_N02	0866
DL70_N03	LAPD/MFO/S70/DL70_N03	

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Test Case Identifier	Test Case Reference	Description
DL70_N04	LAPD/MFO/S70/DL70_N04	0867
DL70_N05	LAPD/MFO/S70/DL70_N05	0868
DL70_N06	LAPD/MFO/S70/DL70_N06	0869
DL70_N07	LAPD/MFO/S70/DL70_N07	0870

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Test Case Description	Test Case Reference	Description
0872	LAPD NMR STU DLTG N 08	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0873	LAPD NMR STU DLTG N 08	Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in Multiple Frame Established state. The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0874	LAPD NMR STU DLTG N 08	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in the Multiple Frame Established state. The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Description	Test Case Reference	Description
0875	LAPD NMR STU DLTG N 08	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0876	LAPD NMR STU DLTG N 08	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0877	LAPD NMR STU DLTG N 08	Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0878	LAPD NMR STU DLTG N 08	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL70_N15	LAPD/MFO/S70/DL70_N15	0879	expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a REJ/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N16	LAPD/MFO/S70/DL70_N16	0880	Verify that the IUT sends a REJ/F=0 and a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.0). The IUT is expected to Awaiting Establishment state after sending SABME/P=1.
DL70_N17	LAPD/MFO/S70/DL70_N17	0881	Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N18	LAPD/MFO/S70/DL70_N18	0882	Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple

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LAPD Conformance Testing

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Test Case Identifier	Test Case Reference		Description
DL70_N19	LAPD/MFO/S70/DL70_N19	0883	Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N20	LAPD/MFO/S70/DL70_N20	0884	Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N21	LAPD/MFO/S70/DL70_N21	0885	Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N22	LAPD/MFO/S70/DL70_N22	0886	Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL70_N23	LAPD/MFC/S70/DL70_N 23	0887	(7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N24	LAPD/MFC/S70/DL70_N 24	0888	Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N25	LAPD/MFC/S70/DL70_N 25	0889	Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N26	LAPD/MFC/S70/DL70_N 26	0890	Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL70_N27	LAPD/MFC/S70/DL70_N 27	0891	(7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL70_N28	LAPD/MFC/S70/DL70_N 28	0892	Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL70_I02	LAPD/MFC/S70/DL70_I 02	0893	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL70_I03	LAPD/MFC/S70/DL70_I 03	0894	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected

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Test Case Identifier	Test Case Reference	Description
104	LAPD/MF0/S70/D170_I 04	0895 to remain in Multiple Frame Established state after sending I frame. Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.
105	LAPD/MF0/S70/D170_I 05	0896 Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A) < N(R) < V(S) received in Multiple Frame Established state. The IUT is expected to remain in Multiple Frame Established state after sending I frame.
106	LAPD/MF0/S70/D170_I 06	0897 Verify that the IUT sends nothing in response to an RNR/F=1 response received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.
107	LAPD/MF0/S70/D170_I 07	0898 Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.

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Test Case Identifier	Test Case Reference	Description
103	LAPD/MF0/S70/D170_I 03	0900 Verify that the IUT sends an I frame when V(S) < V(A) + k (ie. window is open) in Multiple Frame Established state (7.1). The IUT is expected to send an I frame after sending SABME/P=1.
104	LAPD/MF0/S70/D170_I 04	0901 Verify that the IUT does not send an I frame when the window is closed in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending no response.
108	LAPD/MF0/S70/D170_I 08	0902 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.
DL71	LAPD/MF0/S70/D170_I 10	0903 Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.1). The IUT is

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Test Case Identifier	Test Case Reference	Description
DL71-001	LAPD/MFO/S71/DL71_V 12	0904 expected to remain in Multiple Frame Established state after sending UA/F=0. Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to enter TEI Assigned state after sending UA/F=1.
DL71-002	LAPD/MFO/S71/DL71_V 13	0905 Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.1). The IUT is expected to enter TEI Assigned state after send UA/F=0.
DL71-003	LAPD/MFO/S71/DL71_V 14	0906 Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1.
DL71-004	LAPD/MFO/S71/DL71_V 15	0907 Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state.
DL71-005	LAPD/MFO/S71/DL71_V 17	0908 Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in

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Test Case Identifier	Test Case Reference	Description
DL71-006	LAPD/MFO/S71/DL71_V 18	0909 Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71-007	LAPD/MFO/S71/DL71_V 21	0910 Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL71-008	LAPD/MFO/S71/DL71_V 23	0911 Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL71-009	LAPD/MFO/S71/DL71_V 24	0912 Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected

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Test Case Identifier	Test Case Reference	Test Case Description
DL71_V25	LAPD/M (7.1) V 25	Verify that the IUT remains in Multiple Frame Established state after sending RR/F=1. Verify that the IUT responds to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71_V26	LAPD/M (7.1) V 26	Verify that the IUT responds to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71_V27	LAPD/M (7.1) V 27	Verify that the IUT sends an RR/F=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71_V28	LAPD/M (7.1) V 28	Verify that the IUT sends an RR/F=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.

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Test Case Identifier	Test Case Reference	Test Case Description
DL71_V29	LAPD/M (7.1) V 29	Verify that the IUT remains in Multiple Frame Established state after sending I frame. Verify that the IUT responds to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_V30	LAPD/M (7.1) V 30	Verify that the IUT sends an RR/F=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_V31	LAPD/M (7.1) V 31	Verify that the IUT sends an RR/F=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_V32	LAPD/M (7.1) V 32	Verify that the IUT does not respond to a RR/F=0 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_V33	LAPD/M (7.1) V 33	Verify that the IUT sends an RR/F=1 and

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Test Case Identifier	Test Case Reference		Description
DL71_V34	LAPD/MFO/S71/DL71_V34	0922	retransmits an I frame in response to an REJ/P=1 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends a RR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state after sending RR/F=1.
DL71_V35	LAPD/MFO/S71/DL71_V35	0923	Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends a RR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state after sending RR/F=1.
DL71_V36	LAPD/MFO/S71/DL71_V36	0924	Verify that the IUT sends a RR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state after sending RR/F=1.
DL71_V37	LAPD/MFO/S71/DL71_V37	0925	Verify that the IUT sends nothing in

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Test Case Identifier	Test Case Reference		Description
DL71_V39	LAPD/MFO/S71/DL71_V39	0926	response to an RNR/P=0 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state. Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL71_V40	LAPD/MFO/S71/DL71_V40	0927	Verify that the IUT sends an RR/F=1 in response to an RNR/P=1 with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.
DL71_V41	LAPD/MFO/S71/DL71_V41	0928	Verify that the IUT sends nothing in response to an RNR/P=0 with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL71_V43	LAPD/MFO/S71/DL71_V43	0929	Verify that the IUT does not respond to an RNR/F=0 response with V(A) <= N(R) < V(S) received

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Test Case Identifier	Test Case Reference	Description
DL71_V44	LAPD/MFO/S71/DL71_V44	0930 in Multiple Frame Established state (7.1) the IUT is expected to enter Multiple Frame Established Peer Busy state. Verify that the IUT sends an RR/F=1 in response to an I frame received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71_V45	LAPD/MFO/S71/DL71_V45	0931 Verify that the IUT sends an RR/F=0 or I/F=0 in response to an I/P=0 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0 or I/F=0.
DL71_V46	LAPD/MFO/S71/DL71_V46	0932 Verify that the IUT sends an RR/F=1 in response to an I/P=1 with $N(S) < V(R)$ received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL71_V47	LAPD/MFO/S71/DL71_V47	0933 Verify that the IUT sends nothing in response to an I/P=1 with $N(S) < V(R)$ received in Multiple Frame Established state (7.1). The IUT is

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Test Case Identifier	Test Case Reference	Description
DL71_V48	LAPD/MFO/S71/DL71_V48	0934 expected to remain in Multiple Frame Established state. Verify that the IUT sends an RR/F=1 in response to an I/P=1 frame with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=1.
DL71_V49	LAPD/MFO/S71/DL71_V49	0935 Verify that the IUT sends a RR/F=0 or an I/F=0 in response to an I/P=0 received with $V(A) < N(R) < V(S)$ in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=0 or I/F=0.
DL71_V50	LAPD/MFO/S71/DL71_V50	0936 Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with $V(A) < N(R) < V(S)$ and $N(S) < V(R)$ received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RR/F=1.
DL71_V51	LAPD/MFO/S71/DL71_V51	0937 Verify that the IUT sends nothing in response to an I/P=0 frame with $V(A) < N(R) < V(S)$ and $N(S) < V(R)$ received in Multiple

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Test Case Identifier	Test Case Reference		Description
DL71_V52	LAPD/MFO/S71/DL71_V52	0938	Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state. Verify that the IUT sends a RR/F=1 in response to an I frame with $V(A)=N(R)<V(S)$ received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established state after sending RR/F=1.
DL71_V53	LAPD/MFO/S71/DL71_V53	0939	Verify that the IUT sends a RR/F=0 or an I/F=0 in response to an I/P=0 received with $V(A)=N(R)<V(S)$ in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=0 or I/F=0.
DL71_V54	LAPD/MFO/S71/DL71_V54	0940	Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with $V(A)=N(R)<V(S)$ and $N(S)<V(R)$ received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RR/F=1.
DL71_V55	LAPD/MFO/S71/DL71_V55	0941	Verify that the IUT sends nothing in response to an I/P=0

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Test Case Identifier	Test Case Reference		Description
DL71_V56	LAPD/MFO/S71/DL71_V56	0942	frame with $V(A)=N(R)<V(S)$ and $N(S)<V(R)$ received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state. Verify that the IUT sends an RR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.1). The IUT is expected to enter Timer Recovery state after sending RR/P=1 or I/P=1.
DL71_V57	LAPD/MFO/S71/DL71_V57	0943	Verify that the IUT sends an RR/P=1 after a T203 timeout occurs in Multiple Frame Established state (7.1). The IUT is expected to enter Timer Recovery state after sending RR/P=1.
DL71_V58	LAPD/MFO/S71/DL71_V58	0944	Verify that the IUT sends an RNR/F=0 when it sets OWN BUSY in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Own Busy state after sending RNR/F=0.
DL71_N01	LAPD/MFO/S71/DL71_N01	0945	Verify that the IUT sends an RR/F=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame

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Test Case Identifier	Test Case Reference	Description
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL71_N02	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	02	sends a SABME/P=1 in
#		response to an RR/P=0
#		command with an N(R)
#		error received in
#		Multiple frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL71_N03	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	03	sends a SABME/P=1 in
#		response to an RR/F=1
#		response with an N(R)
#		error received in
#		Multiple Frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL71_N04	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	04	sends a SABME/P=1 in
#		response to an RR/F=0
#		with an N(R) error
#		received in Multiple
#		Frame Established state
#		(7.1). The IUT is
#		expected to enter
#		Awaiting Establishment
#		state after sending
#		SABME/P=1.
DL71_N05	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	05	sends an RR/F=1 and a
#		SABME/P=1 in response
#		to a REJ/P=1 command

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Test Case Identifier	Test Case Reference	Description
#		with a N(R) error
#		received in Multiple
#		Frame Established state
#		(7.1). The IUT is
#		expected to enter
#		Awaiting Establishment
#		state after sending
#		SABME/P=1.
DL71_N06	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	06	sends a SABME/P=1 in
#		response to a REJ/P=0
#		command with an N(R)
#		error received in
#		Multiple Frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/F=1.
DL71_N07	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	07	sends a SABME/P=1 in
#		response to a REJ/F=1
#		Response with an N(R)
#		error received in
#		Multiple Frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL71_N08	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	08	sends a SABME/P=1 in
#		response to a REJ/F=0
#		Response with an N(R)
#		error received in
#		Multiple Frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL71_N09	LAPD/MFC/S71/DL71_N	Verify that the IUT
#	09	sends a SABME/P=1 in
#		response to a REJ/P=1
#		command with an N(R)
#		error received in
#		Multiple Frame
#		Established state (7.1)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.

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Test Case Identifier	Test Case Reference	Description
0954	LAPD/M: S11/DL1/N	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0955	LAPD/M: S11/DL1/N	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0956	LAPD/M: S11/DL1/N	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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0957	LAPD/M: S11/DL1/N	Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0958	LAPD/M: S11/DL1/N	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0959	LAPD/M: S11/DL1/N	Verify that the IUT sends an RR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)~V(R) received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
0960	LAPD/M: S11/DL1/N	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)~V(R) received in Multiple Frame Established state (7.1).

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Test Case Identifier	Test Case Reference		Description
#			. The IUT is expected
#			to Awaiting Establishment
#			nt state after sending
DL71_N17	LAPD/MFO/S71/DL71_N	0961	SABME/P=1.
#	17		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a SABME of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N18	LAPD/MFO/S71/DL71_N	0962	SABME/P=1.
#	18		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a DISC of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N19	LAPD/MFO/S71/DL71_N	0963	SABME/P=1.
#	19		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a UA of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N20	LAPD/MFO/S71/DL71_N	0964	SABME/P=1.
#	20		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a DM of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter

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Test Case Identifier	Test Case Reference		Description
#			Awaiting Establishment
#			state after sending
#			SABME/P=1.
DL71_N21	LAPD/MFO/S71/DL71_N	0965	Verify that the IUT
#	21		sends a SABME/P=1 in
#			response to a FRMR of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N22	LAPD/MFO/S71/DL71_N	0966	SABME/P=1.
#	22		Verify that the IUT
#			sends a SABME/P=1 in
#			response to an RR of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N23	LAPD/MFO/S71/DL71_N	0967	SABME/P=1.
#	23		Verify that the IUT
#			sends a SABME/P=1 in
#			response to an RNR of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL71_N24	LAPD/MFO/S71/DL71_N	0968	SABME/P=1.
#	24		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a REJ of
#			incorrect length
#			received in Multiple
#			Frame Established state
#			(7.1). The IUT is
#			expected to enter
#			Awaiting Establishment

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Test Case Identifier	Test Case Reference	Description
DL71_N25	LAPD/MFC/S71/DL71_N 25	0969 state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL71_N26	LAPD/MFC/S71/DL71_N 26	0970 Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL71_N27	LAPD/MFC/S71/DL71_N 27	0971 Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL71_I01	LAPD/MFC/S71/DL71_I 01	0972 Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after

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Test Case Identifier	Test Case Reference	Description
DL71_I02	LAPD/MFC/S71/DL71_I 02	0973 sending no response. Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_I03	LAPD/MFC/S71/DL71_I 03	0974 Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_I04	LAPD/MFC/S71/DL71_I 04	0975 Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state.
DL71_I05	LAPD/MFC/S71/DL71_I 05	0976 Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL71_I06	LAPD/MFC/S71/DL71_I 06	0977 Verify that the IUT sends nothing in

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Test Case Identifier	Test Case Reference	Description
DL7_I07	LAPD/MFO/S72/DL72 V 07	Verify that the IUT response to an RNR/F=1 (R)<V(S) received in Established state (7.2). The IUT is expected to enter Multiple Frame Established state. Verify that the IUT response to an RNR/F=1 (R)<V(S) received in Established state (7.2). The IUT is expected to enter Multiple Frame Established state. Verify that the IUT send a SABME/P=1 in Established state (7.2). The IUT is expected to enter Awaiting SABME/P=1. Verify that the IUT sends an I frame when V (7.2). The IUT is
DL7_V01	LAPD/MFO/S72/DL72 V 01	Verify that the IUT send a SABME/P=1 in Established state (7.2). The IUT is expected to enter Awaiting SABME/P=1. Verify that the IUT sends an I frame when V (7.2). The IUT is
DL7_V03	LAPD/MFO/S72/DL72 V 03	Verify that the IUT sends an I frame when V (7.2). The IUT is
DL7_V04	LAPD/MFO/S72/DL72 V 04	Verify that the IUT does not send an I frame when V (7.2). The IUT is

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Test Case Identifier	Test Case Reference	Description
DL7_V08	LAPD/MFO/S72/DL72 V 08	Verify that the IUT response to a SABME/P=1 (7.2). The IUT is
DL7_V10	LAPD/MFO/S72/DL72 V 10	Verify that the IUT response to a SABME/P=0 (7.2). The IUT is expected to remain in Established state after sending UA/F=0. Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in
DL7_V12	LAPD/MFO/S72/DL72 V 12	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in
DL7_V13	LAPD/MFO/S72/DL72 V 13	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in
DL7_V14	LAPD/MFO/S72/DL72 V 14	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to enter TEI Assigned state after sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in

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Test Case Identifier	Test Case Reference	Description
72_V16	LAPD/MFC/S72/DL72_V 16	0987
72_V17	LAPD/MFC/S72/DL72_V 17	0988
72_V18	LAPD/MFC/S72/DL72_V 18	0989
72_V19	LAPD/MFC/S72/DL72_V 19	0990

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Test Case Identifier	Test Case Reference	Description
72_V23	LAPD/MFC/S72/DL72_V 23	0991
72_V24	LAPD/MFC/S72/DL72_V 24	0992
72_V25	LAPD/MFC/S72/DL72_V 25	0993
72_V26	LAPD/MFC/S72/DL72_V 26	0994

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Test Case Identifier	Test Case Reference		Description
DL72_V27 # # # # # # # # # # DL72_V28 # # # # # # # # DL72_V29 # # # # # # # # DL72_V30 # # # # # # # # # #	LAPD/MFO/S72/DL72_V 27 LAPD/MFO/S72/DL72_V 28 LAPD/MFO/S72/DL72_V 29 LAPD/MFO/S72/DL72_V 30 	0995 0996 0997 0998 	Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)=N(R) <V(S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state after sending the I frame. Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V (A)=N(R)<V(S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V (A)=N(R)<V(S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends an RNR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL72_V31 # # # # # # # # # # DL72_V32 # # # # # # # # DL72_V33 # # # # # # # # DL72_V34 # # # # # # # # DL72_V35 # # # # # # # # # #	LAPD/MFO/S72/DL72_V 31 LAPD/MFO/S72/DL72_V 32 LAPD/MFO/S72/DL72_V 33 LAPD/MFO/S72/DL72_V 34 LAPD/MFO/S72/DL72_V 35 	0999 1000 1001 1002 1003 	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state. Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state. Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V (A)<=N(R)<V(S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V (A)<=N(R)<V(S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an

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Test Case Identifier	Test Case Reference		Description
DL72_V36	LAPD/MFO/S72/DL72_V 36	1004	REJ/F=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I Frame. Verify that the IUT sends a RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RNR/P=1.
DL72_V37	LAPD/MFO/S72/DL72_V 37	1005	Verify that the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_V38	LAPD/MFO/S72/DL72_V 38	1006	Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_V39	LAPD/MFO/S72/DL72_V 39	1007	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 with V(A) <= N(R) < V(S) received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL72_V40	LAPD/MFO/S72/DL72_V 40	1008	(7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RNR/F=1.
DL72_V41	LAPD/MFO/S72/DL72_V 41	1009	Verify that the IUT sends nothing in response to an RNR/P=0 with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_V42	LAPD/MFO/S72/DL72_V 42	1010	Verify that the IUT does not respond to an RNR/F=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_V43	LAPD/MFO/S72/DL72_V 43	1011	Verify that the IUT sends an RNR/F=1 in response to an I frame received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.
DL72_V44	LAPD/MFO/S72/DL72_V 44	1012	Verify that the IUT sends nothing in response to an I/P=0 received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame

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Test Case Identifier	Test Case Reference		Description
# DL72_V46 # # # # # # # # # DL72_V47 # # # # # # # # # DL72_V48 # # # # # # # # # DL72_V49 # # # # # # # # #	LAPD/MFO/S72/DL72_V 46 LAPD/MFO/S72/DL72_V 47 LAPD/MFO/S72/DL72_V 48 LAPD/MFO/S72/DL72_V 49 	1012 1013 1014 1015 	Established state. Verify that the IUT sends an RNR/F=1 in response to an I/P=1 with N(S)<>V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain Multiple Frame Established state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 with N(S)<>V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Reject state. Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V (S) received in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 received with V(A)<N(R) <V(S) in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple Frame Established Own Busy state.

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Test Case Identifier	Test Case Reference		Description
# DL72_V50 # # # # # # # # # DL72_V51 # # # # # # # # # DL72_V52 # # # # # # # # # DL72_V53 # # # # # # # # #	LAPD/MFO/S72/DL72_V 50 LAPD/MFO/S72/DL72_V 51 LAPD/MFO/S72/DL72_V 52 LAPD/MFO/S72/DL72_V 53 	1016 1017 1018 1019 	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state. Verify that the IUT sends a RNR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 received with V(A)=N(R) <V(S) in Multiple Frame Established state (7.2) . The IUT is expected to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
DL72_V54	LAPD/MFC/S72/DL72_V54	1020	Frame Established Own Busy state. Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with $V(A)=N(R)<V(S)$ and $N(S)<V(R)$ received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/F=1.
DL72_V55	LAPD/MFC/S72/DL72_V55	1021	Verify that the IUT sends nothing in response to an I/P=0 frame with $V(A)=N(R)<V(S)$ and $N(S)<V(R)$ received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state.
DL72_V56	LAPD/MFC/S72/DL72_V56	1022	Verify that the IUT sends an RNR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.2). The IUT is expected to enter Timer Recovery state after sending RNR/P=1.
DL72_V57	LAPD/MFC/S72/DL72_V57	1023	Verify that the IUT sends an RNR/P=1 after a T203 timeout occurs in Multiple Frame Established state (7.2). The IUT is expected to enter Timer Recovery state after sending RNR/F=1.

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LAPD Conformance Testing

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Test Case Identifier	Test Case Reference		Description
DL72_V58	LAPD/MFC/S72/DL72_V58	1024	Verify that the IUT sends an RR/F=0 when it clears Own Busy in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0.
DL72_V59	LAPD/MFC/S72/DL72_V59	1025	Verify that the IUT sends an RNR/F=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_V60	LAPD/MFC/S72/DL72_V60	1026	Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_V61	LAPD/MFC/S72/DL72_V61	1027	Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending

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Test Case Identifier	Test Case Reference		Description
DL72_N04	LAPD/MFO/S72/DL72_N04	1028	SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N05	LAPD/MFO/S72/DL72_N05	1029	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N06	LAPD/MFO/S72/DL72_N06	1030	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N07	LAPD/MFO/S72/DL72_N07	1031	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 response with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL72_N08	LAPD/MFO/S72/DL72_N08	1032	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N09	LAPD/MFO/S72/DL72_N09	1033	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N10	LAPD/MFO/S72/DL72_N10	1034	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N11	LAPD/MFO/S72/DL72_N11	1035	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL72_N12	LAPD/MFO/S12/DL72_N12	1036	Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N13	LAPD/MFO/S72/DL72_N13	1037	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N14	LAPD/MFO/S72/DL72_N14	1038	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N15	LAPD/MFO/S72/DL72_N15	1039	Verify that the IUT sends an RNR/F=1 and sends a SABME/P=1 in response to an I/P=1

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Test Case Identifier	Test Case Reference		Description
DL72_N16	LAPD/MFO/S72/DL72_N16	1040	with an N(R) error and a SABME/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N17	LAPD/MFO/S72/DL72_N17	1041	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and a SABME/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N18	LAPD/MFO/S72/DL72_N18	1042	Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL72_N19	LAPD/MFO/S72/DL72_N19	1043	Verify that the IUT sends a SABME/P=1 in response to a UA of

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Test Case Identifier	Test Case Reference		Description
DL/2_N20	LAPD/MPCV/72/CL/2_N 20	1044	incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N21	LAPD/MPCV/72/CL/2_N 21	1045	Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N22	LAPD/MPCV/72/CL/2_N 22	1046	Verify that the IUT sends a SABME/P=1 in response to a frame of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N23	LAPD/MPCV/72/CL/2_N 23	1047	Verify that the IUT sends a SABME/P=1 in response to a frame of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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DL/2_N24	LAPD/MPCV/72/CL/2_N 24	1048	Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N25	LAPD/MPCV/72/CL/2_N 25	1049	Verify that the IUT sends a SABME/P=1 in response to a frame with excess length (N201 error) received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N26	LAPD/MPCV/72/CL/2_N 26	1050	Verify that the IUT sends a SABME/P=1 in response to an incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL/2_N27	LAPD/MPCV/72/CL/2_N 27	1051	Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field

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Test Case Identifier	Test Case Reference		Description
DL72_I01	LAPD/MFO/S72/DL72_I01	1052	received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL72_I02	LAPD/MFO/S72/DL72_I02	1053	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL72_I03	LAPD/MFO/S72/DL72_I03	1054	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL72_I04	LAPD/MFO/S72/DL72_I04	1055	Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.2). The IUT is

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LAPD Conformance Testing

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Test Case Identifier	Test Case Reference		Description
DL72_I05	LAPD/MFO/S72/DL72_I05	1056	expected to remain in Multiple Frame Established state. Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL72_I06	LAPD/MFO/S72/DL72_I06	1057	Verify that the IUT sends nothing in response to an RNR/F=1 response received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_I07	LAPD/MFO/S72/DL72_I07	1058	Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL72_V01	LAPD/MFO/S73/DL73_V01	1059	Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL72_V03	LAPD/MFO/S73/DL73_V03	1060	Verify that the IUT

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Test Case Identifier	Test Case Reference	Description
#	03	sends an I frame when V
#		(S<V(A)+k (ie. window
#		is open) in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending an I frame.
DL73_V04	LAPD/MFO/S73/DL73_V	verify that the IUT
#	04	does not send an I
#		frame if S=V(A)+k (window is
#		closed) in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending no response.
DL73_V05	LAPD/MFO/S73/DL73_V	Verify that the IUT
#	08	sends a UA/F=1 in
#		response to a SABME/P=0
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending the UA/F=1.
DL73_V06		Verify that the IUT
#		sends a UA/F=1 in
#		response to a SABME/P=0
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending a UA/F=1.
DL73_V07		Verify that the IUT
#		sends a UA/F=1 in
#		response to a DISC/P=1
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending a UA/F=1.

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Test Case Identifier	Test Case Reference	Description
#		sends an I frame when V
#		(S<V(A)+k (ie. window
#		is open) in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending an I frame.
DL73_V04	LAPD/MFO/S73/DL73_V	verify that the IUT
#	04	does not send an I
#		frame if S=V(A)+k (window is
#		closed) in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending no response.
DL73_V05	LAPD/MFO/S73/DL73_V	Verify that the IUT
#	08	sends a UA/F=1 in
#		response to a SABME/P=0
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending the UA/F=1.
DL73_V06		Verify that the IUT
#		sends a UA/F=1 in
#		response to a SABME/P=0
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending a UA/F=1.
DL73_V07		Verify that the IUT
#		sends a UA/F=1 in
#		response to a DISC/P=1
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending a UA/F=1.
DL73_V08	LAPD/MFO/S73/DL73_V	Verify that the IUT
#	10	sends a UA/F=1 in
#		response to a DISC/P=1
#		received in Multiple
#		Frame Established state
#		(7.3). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending a UA/F=1.

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Test Case Identifier	Test Case Reference		Description
DL73_V21	LAPD/MFO/S73/DL73_V 21	1070	response to an RR/P=1 command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1. Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL73_V23	LAPD/MFO/S73/DL73_V 23	1071	Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after send no response.
DL73_V24	LAPD/MFO/S73/DL73_V 24	1072	Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL73_V25	LAPD/MFO/S73/DL73_V 25	1073	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame

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Test Case Identifier	Test Case Reference		Description
DL73_V26	LAPD/MFO/S73/DL73_V 26	1074	Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I. Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL73_V27	LAPD/MFO/S73/DL73_V 27	1075	Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.
DL73_V28	LAPD/MFO/S73/DL73_V 28	1076	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL73_V29	LAPD/MFO/S73/DL73_V 29	1077	Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame

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Test Case Identifier	Test Case Reference		Description
DL73_V30	LAPD/MFO/S73/DL73_V30	1078	Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends an RNR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL73_V31	LAPD/MFO/S73/DL73_V31	1079	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.
DL73_V32	LAPD/MFO/S73/DL73_V32	1080	Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.
DL73_V33	LAPD/MFO/S73/DL73_V33	1081	Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
DL73_V34	LAPD/MFO/S73/DL73_V34	1082	Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL73_V35	LAPD/MFO/S73/DL73_V35	1083	Verify that the IUT retransmits an I frame in response to an REJ/P=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I Frame.
DL73_V36	LAPD/MFO/S73/DL73_V36	1084	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.
DL73_V37	LAPD/MFO/S73/DL73_V37	1085	Verify that the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state.

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Test Case Identifier	Test Case Reference		Description
DL73_V39	LAPD/MFO/S73/DL73_V39	1086	Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.3). the IUT is expected to enter Multiple Frame Established Peer Busy state.
DL73_V40	LAPD/MFO/S73/DL73_V40	1087	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RNR/F=1.
DL73_V41	LAPD/MFO/S73/DL73_V41	1088	Verify that the IUT sends nothing in response to an RNR/P=0 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL73_V42	LAPD/MFO/S73/DL73_V42	1089	Verify that the IUT does not respond to an RNR/F=0 response with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.3). the IUT is expected to enter Multiple Frame Established Peer Busy state.
DL73_V43	LAPD/MFO/S73/DL73_V43		Verify that the IUT sends an RNR/F=1 in

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Test Case Identifier	Test Case Reference		Description
DL73_V44	LAPD/MFO/S73/DL73_V44	1091	Verify that the IUT sends nothing in response to an I/P=0 received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.
DL73_V45	LAPD/MFO/S73/DL73_V45	1092	Verify that the IUT sends an RNR/F=1 in response to an I/P=1 with $N(S) < V(R)$ received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.
DL73_V46	LAPD/MFO/S73/DL73_V46	1093	Verify that the IUT sends nothing in response to an I/P=0 with $N(S) < V(R)$ received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.
DL73_V47	LAPD/MFO/S73/DL73_V47	1094	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.3).

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Test Case Identifier	Test Case Reference		Description
DL73_V49	LAPD/MFO/S73/DL73_V49	1095	. The IUT is expected to remain in Multiple Frame Established Reject recovery & Own Busy state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 received with V(A)<N(R)<V(S) in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state.
DL73_V50	LAPD/MFO/S73/DL73_V50	1096	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject recovery & Own Busy state after sending RNR/F=1.
DL73_V51	LAPD/MFO/S73/DL73_V51	1097	Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state.
DL73_V52	LAPD/MFO/S73/DL73_V52	1098	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL73_V53	LAPD/MFO/S73/DL73_V53	1100	sends a RNR/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject recovery & Own Busy state after sending RNR/F=1.
DL73_V54	LAPD/MFO/S73/DL73_V54	1101	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject recovery & Own Busy state after sending RNR/F=1.
DL73_V55	LAPD/MFO/S73/DL73_V55	1102	Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.3). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL73_V56	LAPD/MFO/S73/DL73_V56	1102	expected to remain in Multiple Frame Established Reject Recovery & Own Busy state. Verify that the IUT sends an RNR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.3). The IUT is expected to enter Timer Recovery state after sending RNR/P=1 or I/P=1.
DL73_V57	LAPD/MFO/S73/DL73_V57	1103	Verify that the IUT sends an RNR/P=1 after a T203 timeout occurs in Multiple Frame Established state (7.3). The IUT is expected to enter Timer Recovery state after sending RNR/F=1.
DL73_V59	LAPD/MFO/S73/DL73_V59	1104	Verify that the IUT sends an RR/F=0 when it clears OWN BUSY in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0.
DL73_N01	LAPD/MFO/S73/DL73_N01	1105	Verify that the IUT sends an RNR/F=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending

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Test Case Identifier	Test Case Reference		Description
DL73_N02	LAPD/MFO/S73/DL73_N02	1106	SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N03	LAPD/MFO/S73/DL73_N03	1107	Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N04	LAPD/MFO/S73/DL73_N04	1108	Verify that the IUT sends a SABME/P=1 in response to an RR/F=0 with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N05	LAPD/MFO/S73/DL73_N05	1109	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter

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Test Case Identifier	Test Case Reference		Description
#			Awaiting Establishment state after sending SABME/P=1.
#			
DL73_N06	LAPD/MFO/S73/DL73_N06	1110	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
#			
DL73_N07	LAPD/MFO/S73/DL73_N07	1111	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
#			
DL73_N08	LAPD/MFO/S73/DL73_N08	1112	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
#			
DL73_N09	LAPD/MFO/S73/DL73_N09	1113	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with a N(R) error received in Multiple

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Test Case Identifier	Test Case Reference		Description
#			Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
DL73_N10	LAPD/MFO/S73/DL73_N10	1114	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1.
#			
#			
DL73_N11	LAPD/MFO/S73/DL73_N11	1115	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
DL73_N12	LAPD/MFO/S73/DL73_N12	1116	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
#			
#			
DL73_N13	LAPD/MFO/S73/DL73_N13	1117	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response

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Test Case Identifier	Test Case Reference		Description
DL73_N14	LAPD/MFC/S73/DL73_N 14	1118	to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N15	LAPD/MFC/S73/DL73_N 15	1119	Verify that the IUT sends an RNR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N16	LAPD/MFC/S73/DL73_N 16	1120	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N17	LAPD/MFC/S73/DL73_N	1121	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL73_N17	17		sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N18	LAPD/MFC/S73/DL73_N 18	1122	Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N19	LAPD/MFC/S73/DL73_N 19	1123	Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N20	LAPD/MFC/S73/DL73_N 20	1124	Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL73_N21	LAPD/MFC/S73/DL73_N 21	1125	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference	Description
DL73_N22	LAPD/MFO/S73/DL73_N22	1126
DL73_N23	LAPD/MFO/S73/DL73_N23	1127
DL73_N24	LAPD/MFO/S73/DL73_N24	1128
DL73_N25	LAPD/MFO/S73/DL73_N25	1129

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Test Case Identifier	Test Case Reference	Description
DL73_N26	LAPD/MFO/S73/DL73_N26	1130
DL73_N27	LAPD/MFO/S73/DL73_N27	1131
DL73_I01	LAPD/MFO/S73/DL73_I01	1132
DL73_I02	LAPD/MFO/S73/DL73_I02	1133

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Test Case Identifier	Test Case Reference	Description
DL73_I03	LAPD/MFO/S73/DL73_I03	1134 (A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state. Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends nothing in response to an RNR/F=1 response received in Multiple Frame Established state (7.3). The IUT is expected
DL73_I04	LAPD/MFO/S73/DL73_I04	1135
DL73_I05	LAPD/MFO/S73/DL73_I05	1136
DL73_I06	LAPD/MFO/S73/DL73_I06	1137

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Test Case Identifier	Test Case Reference	Description
DL74_I07	LAPD/MFO/S74/DL74_I07	1138 Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL74_I08	LAPD/MFO/S74/DL74_I08	1139 Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL74_I09	LAPD/MFO/S74/DL74_I09	1140 Verify that the IUT does not send an I frame when V(S)<V(A)+k (ie. window is open) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after queuing the I frame.
DL74_I10	LAPD/MFO/S74/DL74_I10	1141 verify that the IUT does not send an I frame (queued) when V(S)=V(A)+k (window is closed) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending no response.

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Test Case Identifier	Test Case Reference		Description
DL74_V08	LAPD/MFC/S74/DL74_V08	1142	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.
DL74_V10	LAPD/MFC/S74/DL74_V10	1143	Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0.
DL74_V12	LAPD/MFC/S74/DL74_V12	1144	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to enter TEI Assigned state after sending UA/F=1.
DL74_V13	LAPD/MFC/S74/DL74_V13	1145	Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to enter TEI Assigned state after sending UA/F=0.
DL74_V14	LAPD/MFC/S74/DL74_V14	1146	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting

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Test Case Identifier	Test Case Reference		Description
DL74_V16	LAPD/MFC/S74/DL74_V16	1147	Establishment state after sending the SABME/P=1. Verify that the IUT sends a UA/F=1 in response to a DM/F=1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state.
DL74_V17	LAPD/MFC/S74/DL74_V17	1148	Verify that the IUT sends a SABME/P=1 after receiving a RRRP rejecting an RR in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_V20	LAPD/MFC/S74/DL74_V20	1149	Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL74_V21	LAPD/MFC/S74/DL74_V21	1150	Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL74_V23	LAPD/MFC/S74/DL74_V23	1151	Verify that the IUT does not respond to an

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Test Case Identifier	Test Case Reference		Description
DL74_V24	LAPD/MFO/S74/DL74_V24	1152	RR/F=0 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after send no response. Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1. Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I.
DL74_V25	LAPD/MFO/S74/DL74_V25	1153	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL74_V26	LAPD/MFO/S74/DL74_V26	1154	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL74_V27	LAPD/MFO/S74/DL74_V27	1155	Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)=N(R)

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Test Case Identifier	Test Case Reference		Description
DL74_V28	LAPD/MFO/S74/DL74_V28	1156	<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending the I frame. Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL74_V29	LAPD/MFO/S74/DL74_V29	1157	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL74_V30	LAPD/MFO/S74/DL74_V30	1158	Verify that the IUT sends an RR/F=1 in response to a REJ/P=1 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL74_V31	LAPD/MFO/S74/DL74_V31	1159	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame

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Test Case Identifier	Test Case Reference	Description
# # # DL74_V32	LAPD/MFC/S74/DL74_V 32	1160 Established state (7.4) . The IUT is expected to remain in Multiple Frame Established state. Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state.
# # # DL74_V33	LAPD/MFC/S74/DL74_V 33	1161 Verify that the IUT sends an RR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V (A) <= N(R) < V(S) received in Multiple Frame Established state (7.4). . The IUT is expected to remain in Multiple Frame Established state after sending I frame.
# # # DL74_V34	LAPD/MFC/S74/DL74_V 34	1162 Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V (A) <= N(R) < V(S) received in Multiple Frame Established state (7.4). . The IUT is expected to remain in Multiple Frame Established state after sending I frame.
# # # DL74_V35	LAPD/MFC/S74/DL74_V 35	1163 Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V (A) <= N(R) < V(S) received in Multiple Frame Established state (7.4). . The IUT is expected

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Test Case Identifier	Test Case Reference	Description
# # # DL74_V36	LAPD/MFC/S74/DL74_V 36	1164 to remain in Multiple Frame Established state after sending I Frame. Verify that the IUT sends a RR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state after sending RR/F=1.
# # # DL74_V37	LAPD/MFC/S74/DL74_V 37	1165 Verify that the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
# # # DL74_V38	LAPD/MFC/S74/DL74_V 38	1166 Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
# # # DL74_V39	LAPD/MFC/S74/DL74_V 39	1167 Verify that the IUT sends an RR/F=1 in response to an RNR/P=1 with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state after sending

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Test Case Reference	Description
1168	Verify that the IUT sends nothing in response to an RNR/P=0 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
1169	Verify that the IUT does not respond to an RNR/F=0 response with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
1170	Verify that the IUT sends an RR/F=1 in response to an I frame received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
1171	Verify that the IUT sends an RR/F=0 in response to an I/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0.
1172	Verify that the IUT sends a REJ/F=1 in response to an I/P=1

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Test Case Reference	Description
1173	Verify that the IUT sends a REJ/F=0 in response to an I/P=0 with $N(S) < V(R)$ received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending REJ/F=0.
1174	Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy state after sending RR/F=1.
1175	Verify that the IUT sends a RR/F=0 in response to an I/P=0 received with $V(A) \leq N(R) < V(S)$ in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy state after sending RR/F=0.
1176	Verify that the IUT sends a REJ/F=1 in response to an I/P=1

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Test Case Identifier	Test Case Reference		Description
#			frame with V(A)<N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.4). The IUT is
#			expected to enter
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Reject
#			Recovery state after
#			sending REJ/F=1.
DL74_V51	LAPD/MFO/S74/DL74_V	1177	Verify that the IUT
#	S1		sends a REJ/F=0 in
#			response to an I/P=0
#			frame with V(A)<N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.4). The IUT is
#			expected to enter
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Reject
#			Recovery state after
#			sending REJ/F=0.
DL74_V52	LAPD/MFO/S74/DL74_V	1178	Verify that the IUT
#	S2		sends a RR/F=1 in
#			response to an I frame
#			with V(A)=N(R)<V(S)
#			received in Multiple
#			Frame Established state
#			(7.4). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer
#			Receiver Busy state
#			after sending RR/F=1.
DL74_V53	LAPD/MFO/S74/DL74_V	1179	Verify that the IUT
#	S3		sends a RR/F=0 in
#			response to an I/P=0
#			received with V(A)=N(R)
#			<V(S) in Multiple Frame
#			Established state (7.4)
#			. The IUT is expected
#			to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
#			Frame Established Peer
#			Receiver Busy state
#			after sending RR/F=0.
DL74_V54	LAPD/MFO/S74/DL74_V	1180	Verify that the IUT
#	S4		sends a REJ/F=1 in
#			response to an I/P=1
#			frame with V(A)=N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.4). The IUT is
#			expected to enter
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Reject
#			Recovery state after
#			sending REJ/F=1.
DL74_V55	LAPD/MFO/S74/DL74_V	1181	Verify that the IUT
#	S5		sends a REJ/F=0 in
#			response to an I/P=0
#			frame with V(A)=N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.4). The IUT is
#			expected to enter
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Reject
#			Recovery state after
#			sending REJ/F=0.
DL74_V56	LAPD/MFO/S74/DL74_V	1182	Verify that the IUT
#	S6		sends an RR/P=1 after a
#			T200 timeout in
#			Multiple Frame
#			Established state (7.4)
#			. The IUT is expected
#			to enter Timer Recovery
#			state after sending
#			RR/P=1.
DL74_V57	LAPD/MFO/S74/DL74_V	1183	Verify that the IUT
#	S7		sends an RNR/F=0 when
#			it sets OWN BUSY in
#			Multiple Frame
#			Established state (7.4)

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Test Case Identifier	Test Case Reference	Description
DL74_N01	LAPD/MFO/S74/DL74_N01	1184 The IUT is expected to enter Multiple Frame Established Own Busy state after sending RNR/F=0. Verify that the IUT sends an RR/F=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N02	LAPD/MFO/S74/DL74_N02	1185 Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.4). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL74_N03	LAPD/MFO/S74/DL74_N03	1186 Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N04	LAPD/MFO/S74/DL74_N04	1187 Verify that the IUT sends a SABME/P=1 in response to an RR/F=0

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Test Case Identifier	Test Case Reference	Description
DL74_N05	LAPD/MFO/S74/DL74_N05	1188 with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N06	LAPD/MFO/S74/DL74_N06	1189 Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N07	LAPD/MFO/S74/DL74_N07	1190 Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N08	LAPD/MFO/S74/DL74_N08	1191 Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
#	08		sends a SABME/P=1 in response to a REJ/F=0
#			Response with an N(R) error received in
#			Multiple Frame
#			Established state (7.4)
#			. The IUT is expected to enter Awaiting
#			Establishment state after sending
#			SABME/P=1.
DL74_N09	LAPD/MFC/S74/DL74_N09	1192	Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with a N(R) error received in Multiple Frame
#			Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N10	LAPD/MFC/S74/DL74_N10	1193	Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame
#			Established state (7.4)
#			. The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1.
DL74_N11	LAPD/MFC/S74/DL74_N11	1194	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame
#			Established state (7.4)
#			. The IUT is expected to enter Awaiting Establishment state

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Test Case Identifier	Test Case Reference		Description
DL74_N12	LAPD/MFC/S74/DL74_N12	1195	after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame
#			Established state (7.4)
#			. The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N13	LAPD/MFC/S74/DL74_N13	1196	Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame
#			Established state (7.4)
#			. The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N14	LAPD/MFC/S74/DL74_N14	1197	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame
#			Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N15	LAPD/MFC/S74/DL74_N15	1198	Verify that the IUT sends a REJ/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)~V(R) received in Multiple Frame
#			Established state (7.4)

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Test Case Identifier	Test Case Reference		Description
DL74_N16	LAPD/MFO/S74/DL74_N16	1199	. The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a REJ/F=0 and a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.4). The IUT is expected to Awaiting Establishment state after sending SABME/P=1.
DL74_N17	LAPD/MFO/S74/DL74_N17	1200	Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N18	LAPD/MFO/S74/DL74_N18	1201	Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N19	LAPD/MFO/S74/DL74_N19	1202	Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL74_N20	LAPD/MFO/S74/DL74_N20	1203	(7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N21	LAPD/MFO/S74/DL74_N21	1204	Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N22	LAPD/MFO/S74/DL74_N22	1205	Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL74_N23	LAPD/MFO/S74/DL74_N23	1206	Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.4). The IUT is

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Test Case Identifier	Test Case Reference	Description
#		expected to enter
#		Awaiting Establishment
#		state after sending
#		SABME/P=1.
DL74_N24	LAPD/MFO/S74/DL74_N	Verify that the IUT
#	24	sends a SABME/P=1 in
#		response to a REJ of
#		incorrect length
#		received in Multiple
#		Frame Established state
#		(7.4). The IUT is
#		expected to enter
#		Awaiting Establishment
#		state after sending
#		SABME/P=1.
DL74_N25	LAPD/MFO/S74/DL74_N	Verify that the IUT
#	25	sends a SABME/P=1 after
#		an N201 error occurs in
#		Multiple Frame
#		Established state (7.4)
#		. The IUT is expected
#		to enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DL74_N26	LAPD/MFO/S74/DL74_N	Verify that the IUT
#	26	sends a SABME/P=1 in
#		response to an
#		undesired outframe
#		received in Multiple
#		Frame Established state
#		(7.4). The IUT is
#		expected to enter
#		Awaiting Establishment
#		state after sending
#		SABME/P=1.
DL74_N27	LAPD/MFO/S74/DL74_N	Verify that the IUT
#	27	sends a SABME/P=1 in
#		response to a frame
#		with an invalid I field
#		received in Multiple
#		Frame Established state
#		(7.4). The IUT is
#		expected to enter
#		Awaiting Establishment

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Test Case Identifier	Test Case Reference	Description
#		state after sending
#		SABME/P=1.
DL74_I01	LAPD/MFO/S74/DL74_I	Verify that the IUT
#	01	does not respond to an
#		RR/F=1 response
#		received in Multiple
#		Frame Established state
#		(7.4). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state after
#		sending no response.
DL74_I02	LAPD/MFO/S74/DL74_I	Verify that the IUT
#	02	retransmits an I frame
#		in response to an
#		RR/F=1 response with V
#		(AEN(R) < V).
#		received in Multiple Frame
#		Established state (7.4)
#		. The IUT is expected
#		to remain in Multiple
#		Frame Established state
#		after sending I frame.
DL74_I03	LAPD/MFO/S74/DL74_I	Verify that the IUT
#	03	retransmits an I frame
#		in response to an
#		RR/F=1 response with V
#		(AEN(R) < V).
#		received in Multiple frame
#		Established state (7.4)
#		. The IUT is expected
#		to remain in Multiple
#		Frame Established state
#		after sending I frame.
DL74_I04	LAPD/MFO/S74/DL74_I	Verify that the IUT
#	04	does not respond to a
#		REJ/F=1 response
#		received in Multiple
#		Frame Established state
#		(7.4). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established state.
DL74_I05	LAPD/MFO/S74/DL74_I	Verify that the IUT
#	05	retransmits an I frame

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Test Case Identifier	Test Case Reference	Description
DL74_106	LAPD-MFC-S14-DL74_106	1216 in response to an REJ/F=1 response with V(A)≤N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends nothing in response to an RNR/F=1 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL74_107	LAPD-MFC-S14-DL74_107	1217 Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A)≤N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL75_108	LAPD-MFC-S14-DL75_108	1218 Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL75_109	LAPD-MFC-S14-DL75_109	1219 Verify that the IUT does not send an I frame when V(S)<V(A)+k (ie. window is open) in Multiple Frame Established state (7.5).

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Test Case Identifier	Test Case Reference	Description
DL76_110	LAPD-MFC-S14-DL76_110	1220 The IUT is expected to remain in Multiple Frame Established state after receiving the I frame. Verify that the IUT does not send an I frame (queued) when V(S)=V(A)+k (window is closed) in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL76_111	LAPD-MFC-S14-DL76_111	1221 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.
DL76_112	LAPD-MFC-S14-DL76_112	1222 Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0.
DL76_113	LAPD-MFC-S14-DL76_113	1223 Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.5). The IUT is expected to enter TEI Assigned state after sending UA/F=1.

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Test Case Identifier	Test Case Reference		Description
DL75_V13 # # # # # #	LAPD/MFO/S75/DL75_V 13	1224	Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.5). The IUT is expected to enter TEI Assigned state after send UA/F=0.
DL75_V14 # # # # # #	LAPD/MFO/S75/DL75_V 14	1225	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1.
DL75_V16 # # # # # #	LAPD/MFO/S75/DL75_V 16	1226	Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.
DL75_V17 # # # # # #	LAPD/MFO/S75/DL75_V 17	1227	Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_V20 # # # #	LAPD/MFO/S75/DL75_V 20	1228	Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.5).

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Test Case Identifier	Test Case Reference		Description
DL75_V21 # # # # # #	LAPD/MFO/S75/DL75_V 21	1229	The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1. Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL75_V23 # # # # # #	LAPD/MFO/S75/DL75_V 23	1230	Verify that the IUT does not respond to an RR/P=0 response received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after send no response.
DL75_V24 # # # # # #	LAPD/MFO/S75/DL75_V 24	1231	Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL75_V25 # # # # # #	LAPD/MFO/S75/DL75_V 25	1232	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL75_V26	LAPD/MFO/S75/DL75_V26	1233	after sending I frame. Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL75_V27	LAPD/MFO/S75/DL75_V27	1234	Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.
DL75_V28	LAPD/MFO/S75/DL75_V28	1235	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL75_V29	LAPD/MFO/S75/DL75_V29	1236	Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
DL75_V30	LAPD/MFO/S75/DL75_V30	1237	after sending I frame. Verify that the IUT sends an RR/F=1 in response to a REJ/P=1 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL75_V31	LAPD/MFO/S75/DL75_V31	1238	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.
DL75_V32	LAPD/MFO/S75/DL75_V32	1239	Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.
DL75_V33	LAPD/MFO/S75/DL75_V33	1240	Verify that the IUT sends an RR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL75_V34	LAPD/MFO/S75/DL75_V34	1241	Verify that the IUT retransmits an I frame in response to an

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Test Case Identifier	Test Case Reference	Description
#		REJ/P=0 command with V
#		(A) <= N(R) < V(S) received
#		in Multiple Frame
#		Established state (7.5)
#		. The IUT is expected
#		to remain in Multiple
#		Frame Established state
#		after sending I frame.
DL75_V35	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	35	retransmits an I frame
#		in response to an
#		REJ/F=0 response with V
#		(A) <= N(R) < V(S) received
#		in Multiple Frame
#		Established state (7.5)
#		. The IUT is expected
#		to remain in Multiple
#		Frame Established state
#		after sending I Frame.
DL73_V36	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	36	sends a RR/F=1 in
#		response to an RNR/P=1
#		received in Multiple
#		Frame Established state
#		(7.5). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established Peer Busy
#		state after sending
#		RR/F=1.
DL73_V37	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	37	sends nothing in
#		response to an RNR/P=1
#		received in Multiple
#		Frame Established state
#		(7.5). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established Peer Busy
#		state.
DL73_V39	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	39	sends nothing in
#		response to an
#		RNR/F=0 response
#		received in Multiple
#		Frame Established state

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Test Case Identifier	Test Case Reference	Description
#		(7.5). the IUT is
#		expected to remain in
#		Multiple Frame
#		Established Peer Busy
#		state.
DL73_V40	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	40	sends an RR/F=1 in
#		response to an RNR/P=1
#		with V(A) <= N(R) < V(S)
#		received in Multiple
#		Frame Established state
#		(7.5). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established Peer Busy
#		state after sending
#		RR/F=1.
DL75_V41	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	41	sends nothing in
#		response to an RNR/P=0
#		with V(A) <= N(R) < V(S)
#		received in Multiple
#		Frame Established state
#		(7.5). The IUT is
#		expected to remain in
#		Multiple Frame
#		Established Peer Busy
#		state.
DL73_V43	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	43	does not respond to an
#		RNR/F=0 response with V
#		(A) <= N(R) < V(S) received
#		in Multiple Frame
#		Established state (7.5)
#		. the IUT is expected
#		to remain in Multiple
#		Frame Established Peer
#		Busy state.
DL75_V44	LAPD/MFO/S75/DL73_V	Verify that the IUT
#	44	sends an RR/F=1 in
#		response to an I frame
#		received in Multiple
#		Frame Established state
#		(7.5). The IUT is
#		expected to remain in

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Test Case Identifier	Test Case Reference	Description
1250	LAPD/MFO/S13/DL13_V 46	Multiple Frame Established state after sending RR/F=1. Verify that the IUT sends an RR/F=0 in response to an I/P=0 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0. Verify that the IUT sends an RR/F=1 in response to an I/P=1 with N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
1251	LAPD/MFO/S13/DL13_V 46	Verify that the IUT sends nothing in response to an I/P=0 with N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.
1252	LAPD/MFO/S13/DL13_V 47	Verify that the IUT sends nothing in response to an I/P=0 with N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.
1253	LAPD/MFO/S13/DL13_V 48	Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to enter Multiple Frame Established Peer receiver Busy state

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Test Case Identifier	Test Case Reference	Description
1254	LAPD/MFO/S13/DL13_V 49	After sending RR/F=1. Verify that the IUT sends a RR/F=0 in response to an I/P=0 received with V(A)<N(R) <V(S) in Multiple Frame Established state (7.5). The IUT is expected to enter in Multiple Frame Established Peer receiver Busy state after sending RR/F=1.
1255	LAPD/MFO/S13/DL13_V 50	Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer receiver Busy/Reject Recovery state after sending RR/F=1.
1256	LAPD/MFO/S13/DL13_V 51	Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery state.
1257	LAPD/MFO/S13/DL13_V 52	Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V (S) and N(S)<>V(R) received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
#			(7.5). The IUT is
#			expected to enter
#			Multiple Frame
#			Established Peer
#			Receiver Busy state
DL75_V53	LAPD/MFO/S75/DL75_V	1258	after sending RR/F=1.
#	53		Verify that the IUT
#			sends a RR/F=0 in
#			response to an I/P=0
#			received with V(A)=N(R)
#			<V(S) in Multiple Frame
#			Established state (7.5)
#			. The IUT is expected
#			to enter in Multiple
#			Frame Established Peer
#			Receiver Busy state
#			after sending RR/F=0.
DL75_V54	LAPD/MFO/S75/DL75_V	1259	Verify that the IUT
#	54		sends a RR/F=1 in
#			response to an I/P=1
#			frame with V(A)=N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.5). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer
#			receiver Busy/Reject
#			Recovery state after
#			sending RR/F=1.
DL75_V55	LAPD/MFO/S75/DL75_V	1260	Verify that the IUT
#	55		sends nothing in
#			response to an I/P=0
#			frame with V(A)=N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.5). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Reject
#			Recovery state.
DL75_V56	LAPD/MFO/S75/DL75_V	1261	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
#			sends an RR/P=1 after a
#			T200 timeout in
#			Multiple Frame
#			Established state (7.5)
#			. The IUT is expected
#			to enter Timer Recovery
#			state (8.5) after
#			sending RR/P=1.
DL75_V57	LAPD/MFO/S75/DL75_V	1262	Verify that the IUT
#	57		sends an RNR/F=0 when
#			it sets OWN BUSY in
#			Multiple Frame
#			Established state (7.5)
#			. The IUT is expected
#			to enter Multiple Frame
#			Established Own Busy
#			state after sending
#			RNR/F=0.
DL75_N01	LAPD/MFO/S75/DL75_N	1263	Verify that the IUT
#	01		sends an RR/F=1 and
#			then sends a SABME/P=1
#			in response to an
#			RR/P=1 command with N
#			(R) error received in
#			Multiple Frame
#			Established state (7.5)
#			. The IUT is expected
#			to enter Awaiting
#			Establishment state
#			after sending
#			SABME/P=1.
DL75_N02	LAPD/MFO/S75/DL75_N	1264	Verify that the IUT
#	02		sends a SABME/P=1 in
#			response to an RR/P=0
#			command with an N(R)
#			error received in
#			Multiple frame
#			Established state (7.5)
#			. The IUT is expected
#			to enter Awaiting
#			establishment state
#			after sending
#			SABME/P=1.
DL75_N03	LAPD/MFO/S75/DL75_N	1265	Verify that the IUT
#	03		sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference	Description
DL75_N_4	LAPD MFC/S75/DL75_N 34	1266 response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.5) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RR/F=0 with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_N_5	LAPD MFC/S75/DL75_N 5	1267 Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_N_6	LAPD MFC/S75/DL75_N 6	1268 Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 command with an N(R) error received in Multiple Frame Established state (7.5) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Identifier	Test Case Reference	Description
DL75_N_7	LAPD MFC/S75/DL75_N 7	1269 Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 command with an N(R) error received in Multiple Frame Established state (7.5) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_N_8	LAPD MFC/S75/DL75_N 8	1270 Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.5) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_N_9	LAPD MFC/S75/DL75_N 9	1271 Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with a N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL75_N_10	LAPD MFC/S75/DL75_N 10	1272 Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.5) . The IUT is expected to enter Awaiting

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Test Case Identifier	Test Case Reference	Description
DL75_N11	LAPD ME 075 N 11	1273
DL75_N12	LAPD ME 075 N 12	1274
DL75_N13	LAPD ME 075 N 13	1275
DL75_N14	LAPD ME 075 N 14	1276

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Test Case Identifier	Test Case Reference	Description
DL75_N15	LAPD ME 075 N 15	1277
DL75_N16	LAPD ME 075 N 16	1278
DL75_N17	LAPD ME 075 N 17	1279
DL75_N18	LAPD ME 075 N 18	1280

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Test Case Identifier	Test Case Reference	Description
DL'S_N19	LAPD/MFC/S'S/DL'S_N 19	1281 Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N20	LAPD/MFC/S'S/DL'S_N 20	1282 Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N21	LAPD/MFC/S'S/DL'S_N 21	1283 Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N22	LAPD/MFC/S'S/DL'S_N 22	1284 Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference	Description
DL'S_N23	LAPD/MFC/S'S/DL'S_N 23	1285 Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N24	LAPD/MFC/S'S/DL'S_N 24	1286 Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N25	LAPD/MFC/S'S/DL'S_N 25	1287 Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N251 error) received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL'S_N26	LAPD/MFC/S'S/DL'S_N 26	1288 Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference	Description
DL75_N21	LAPD/MFO/S75/LL75_N21	1289
DL75_I01	LAPD/MFO/S75/LL75_I01	1290
DL75_I02	LAPD/MFO/S75/LL75_I02	1291
DL75_I03	LAPD/MFO/S75/LL75_I03	

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Test Case Identifier	Test Case Reference	Description
DL75_I04	LAPD/MFO/S75/LL75_I04	1294
DL75_I05	LAPD/MFO/S75/LL75_I05	1295
DL75_I06	LAPD/MFO/S75/LL75_I06	1295
DL75_I07	LAPD/MFO/S75/LL75_I07	1296
DL76_V01	LAPD/MFO/S76/LL76_V01	1297

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Test Case Identifier	Test Case Reference		Description
DL76_V03	LAPD/MFO/S76/DL76_V03	1298	<p>send a SABME/P=1 in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.</p> <p>Verify that the IUT does not send an I frame when $V(S) < V(A) + k$ (i.e. window is open) in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after queuing the I frame.</p>
DL76_V04	LAPD/MFO/S76/DL76_V04	1299	<p>verify that the IUT does not send an I frame (queued) when $V(S) = V(A) + k$ (window is closed) in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending no response. Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame established state after sending the UA/F=1.</p>
DL76_V08	LAPD/MFO/S76/DL76_V08	1300	<p>Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state</p>
DL76_V10	LAPD/MFO/S76/DL76_V10	1301	<p>Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state</p>

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Test Case Identifier	Test Case Reference		Description
DL76_V12	LAPD/MFO/S76/DL76_V12	1302	<p>(7.6). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0. Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter TEI Assigned state after sending UA/F=1.</p>
DL76_V13	LAPD/MFO/S76/DL76_V13	1303	<p>Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to enter TEI Assigned state after sending UA/F=0.</p>
DL76_V14	LAPD/MFO/S76/DL76_V14	1304	<p>Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1.</p>
DL76_V16	LAPD/MFO/S76/DL76_V16	1305	<p>Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.</p>
DL76_V17	LAPD/MFO/S76/DL76_V17	1306	<p>Verify that the IUT sends a SABME/P=1 after receiving a FRMR</p>

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Test Case Identifier	Test Case Reference		Description
#			rejecting an RR in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to enter Awaiting
#			Establishment state
#			after sending
#			SABME/P=1.
DL76 V20	LAPD/MFO/S76/DL76_V	1307	Verify that the IUT
#	20		sends an RNR/F=1 in
#			response to an RR/P=1
#			command received in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending RNR/F=1.
DL76 V21	LAPD/MFO/S76/DL76_V	1308	Verify that the IUT
#	21		does not respond to an
#			RR/P=0 command received
#			in Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending no
#			response.
DL76 V23	LAPD/MFO/S76/DL76_V	1309	Verify that the IUT
#	23		does not respond to an
#			RR/F=0 response
#			received in Multiple
#			Frame Established state
#			(7.6). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established state after
#			send no response.
DL76 V24	LAPD/MFO/S76/DL76_V	1310	Verify that the IUT
#	24		sends an RNR/F=1 in
#			response to an RR/P=1
#			command with V(A)<N(R)
#			<V(S) received in
#			Multiple Frame
#			Established state (7.6)

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Test Case Identifier	Test Case Reference		Description
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending RR/F=1.
DL76 V25	LAPD/MFO/S76/DL76_V	1311	Verify that the IUT
#	25		retransmits an I frame
#			in response to an
#			RR/P=0 command with V
#			(A)<N(R)<V(S) received
#			in Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending I.
DL76 V26	LAPD/MFO/S76/DL76_V	1312	Verify that the IUT
#	26		retransmits an I frame
#			in response to an
#			RR/F=0 response with V
#			(A)<N(R)<V(S) received
#			in Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending I frame.
DL76 V27	LAPD/MFO/S76/DL76_V	1313	Verify that the IUT
#	27		sends an RNR/F=1 in
#			response to an RR/P=1
#			command with V(A)<N(R)
#			<V(S) received in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending the I
#			frame.
DL76 V28	LAPD/MFO/S76/DL76_V	1314	Verify that the IUT
#	28		retransmits an I frame
#			in response to an
#			RR/P=0 command with V
#			(A)=N(R)<V(S) received
#			in Multiple Frame
#			Established state (7.6)

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Test Case Identifier	Test Case Reference		Description
DL76_V29	LAPD/MFO/S76/DL76_V 29	1315	. The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends an RNR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DL76_V30	LAPD/MFO/S76/DL76_V 30	1316	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.
DL76_V31	LAPD/MFO/S76/DL76_V 31	1317	Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.
DL76_V32	LAPD/MFO/S76/DL76_V 32	1318	Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends a RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL76_V33	LAPD/MFO/S76/DL76_V 33	1319	Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). . The IUT is expected to remain in Multiple Frame Established state after sending I frame. Verify that the IUT sends a RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.
DL76_V34	LAPD/MFO/S76/DL76_V 34	1320	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.
DL76_V35	LAPD/MFO/S76/DL76_V 35	1321	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.
DL76_V36	LAPD/MFO/S76/DL76_V 36	1322	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL76_V37	LAPD/MFO/S76/DL76 V 37	1323	Verify the the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL76_V38	LAPD/MFO/S76/DL76 V 38	1324	Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.6). the IUT is expected to enter Multiple Frame Established Peer Busy state.
DL76_V39	LAPD/MFO/S76/DL76 V 39	1325	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Busy state after sending RNR/F=1.
DL76_V40	LAPD/MFO/S76/DL76 V 40	1326	Verify the the IUT sends nothing in response to an RNR/P=0 with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL76_V41	LAPD/MFO/S76/DL76 V 41	1327	Verify that the IUT does not respond to an

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Test Case Identifier	Test Case Reference		Description
DL76_V41	LAPD/MFO/S76/DL76 V 41	1328	Verify that the IUT sends an RNR/F=1 in response to an I frame received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.
DL76_V42	LAPD/MFO/S76/DL76 V 42	1329	Verify that the IUT sends nothing in response to an I/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=0.
DL76_V43	LAPD/MFO/S76/DL76 V 43	1330	Verify that the IUT sends an RNR/F=1 in response to an I/P=1 with $N(S) \leq V(R)$ received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RNR/F=1.
DL76_V44	LAPD/MFO/S76/DL76 V 44	1331	Verify that the IUT sends nothing in response to an I/P=0 with $N(S) \leq V(R)$ received in Multiple

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Test Case Identifier	Test Case Reference		Description
DL76_V48	LAPD/MFO/S76/DL76_V48	1332	Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Reject recovery state. Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state after sending RNR/F=1.
DL76_V49	LAPD/MFO/S76/DL76_V49	1333	Verify that the IUT sends nothing in response to an I/P=0 received with V(A)<N(R)<V(S) in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state.
DL76_V50	LAPD/MFO/S76/DL76_V50	1334	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state after sending RNR/F=1.
DL76_V51	LAPD/MFO/S76/DL76_V51	1335	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL76_V52	LAPD/MFO/S76/DL76_V52	1336	sends nothing in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state.
DL76_V53	LAPD/MFO/S76/DL76_V53	1337	Verify that the IUT sends a RNR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state after sending RNR/F=1.
DL76_V54	LAPD/MFO/S76/DL76_V54	1338	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in

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Test Case Identifier	Test Case Reference		Description
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Own Busy
#			state after sending
DL76_V55	LAPD/MFO/S76/DL76_V	1339	RNR/F=1.
#	55		Verify that the IUT
#			sends nothing in
#			response to an I/P=0
#			frame with V(A)=N(R)<V
#			(S) and N(S)<>V(R)
#			received in Multiple
#			Frame Established state
#			(7.6). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer
#			Receiver Busy/Own Busy
DL76_V56	LAPD/MFO/S76/DL76_V	1340	state.
#	56		Verify that the IUT
#			sends an RNR/P=1 after
#			a T200 timeout in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to enter Timer Recovery
#			state (8.6) after
DL76_V58	LAPD/MFO/S76/DL76_V	1341	sending RNR/P=1.
#	58		Verify that the IUT
#			sends an RR/F=0 when it
#			clears OWN BUSY in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established state
#			after sending RR/F=0.
DL76_N01	LAPD/MFO/S76/DL76_N	1342	Verify that the IUT
#	01		sends an RNR/F=1 and
#			then sends a SABME/P=1
#			in response to an
#			RR/P=1 command with N
#			(R) error received in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected

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Test Case Identifier	Test Case Reference		Description
#			to enter Awaiting
#			Establishment state
#			after sending
DL76_N02	LAPD/MFO/S76/DL76_N	1343	SABME/P=1.
#	02		Verify that the IUT
#			sends a SABME/P=1 in
#			response to an RR/P=0
#			command with an N(R)
#			error received in
#			Multiple frame
#			Established state (7.6)
#			. The IUT is expected
#			to enter Awaiting
#			establishment state
#			after sending
DL76_N03	LAPD/MFO/S76/DL76_N	1344	SABME/P=1.
#	03		Verify that the IUT
#			sends a SABME/P=1 in
#			response to an RR/F=1
#			response with an N(R)
#			error received in
#			Multiple Frame
#			Established state (7.6)
#			. The IUT is expected
#			to enter Awaiting
#			Establishment state
#			after sending
DL76_N04	LAPD/MFO/S76/DL76_N	1345	SABME/P=1.
#	04		Verify that the IUT
#			sends a SABME/P=1 in
#			response to an RR/F=0
#			with an N(R) error
#			received in Multiple
#			Frame Established state
#			(7.6). The IUT is
#			expected to enter
#			Awaiting Establishment
#			state after sending
DL76_N05	LAPD/MFO/S76/DL76_N	1346	SABME/P=1.
#	05		Verify that the IUT
#			sends an RNR/F=1 and a
#			SABME/P=1 in response
#			to a REJ/P=1 command
#			with a N(R) error
#			received in Multiple

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Test Case Identifier	Test Case Reference		Description
DL76_N06	LAPD/MFC/S76/DL76_N06	1347	Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/F=1.
DL76_N07	LAPD/MFC/S76/DL76_N07	1348	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N08	LAPD/MFC/S76/DL76_N08	1349	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N09	LAPD/MFC/S76/DL76_N09	1350	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response

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Test Case Identifier	Test Case Reference		Description
DL76_N10	LAPD/MFC/S76/DL76_N10	1351	to an RNR/P=1 command with a N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1.
DL76_N11	LAPD/MFC/S76/DL76_N11	1352	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N12	LAPD/MFC/S76/DL76_N12	1353	Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL76_N13 # # # # # # # #	LAPD/MFO/S76/DL76_N 13	1354	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N14 # # # # # # # #	LAPD/MFO/S76/DL76_N 14	1355	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N15 # # # # # # # #	LAPD/MFO/S76/DL76_N 15	1356	Verify that the IUT sends an RNR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N16 # # # # # # # #	LAPD/MFO/S76/DL76_N 16	1357	Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting

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Test Case Identifier	Test Case Reference		Description
DL76_N17 # # # # # # # #	LAPD/MFO/S76/DL76_N 17	1358	Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N18 # # # # # # # #	LAPD/MFO/S76/DL76_N 18	1359	Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N19 # # # # # # # #	LAPD/MFO/S76/DL76_N 19	1360	Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N20 # # # # # # # #	LAPD/MFO/S76/DL76_N 20	1361	Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment

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Test Case Identifier	Test Case Reference		Description
DL76_N21	LAPD/MFO/S76/DL76_N 21	1362	State after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N22	LAPD/MFO/S76/DL76_N 22	1363	Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N23	LAPD/MFO/S76/DL76_N 23	1364	Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N24	LAPD/MFO/S76/DL76_N 24	1365	Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending

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Test Case Identifier	Test Case Reference		Description
DL76_N25	LAPD/MFO/S76/DL76_N 25	1366	SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N26	LAPD/MFO/S76/DL76_N 26	1367	Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_N27	LAPD/MFO/S76/DL76_N 27	1368	Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL76_I01	LAPD/MFO/S76/DL76_I 01	1369	Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending no response.

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Test Case Identifier	Test Case Reference		Description
DL76_I02 # # # # # # #	LAPD/MFO/S76/DL76_I02	1370	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL76_I03 # # # # # # #	LAPD/MFO/S76/DL76_I03	1371	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL76_I04 # # # # # # #	LAPD/MFO/S76/DL76_I04	1372	Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.
DL76_I05 # # # # # # #	LAPD/MFO/S76/DL76_I05	1373	Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL76_I06 # #	LAPD/MFO/S76/DL76_I06	1374	Verify that the IUT sends nothing in response to an RNR/F=1

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Test Case Identifier	Test Case Reference		Description
# # # # # # # # # # #			response received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL76_I07 # # # # # # # # # # #	LAPD/MFO/S76/DL76_I07	1375	Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.
DL77_V01 # # # # # # # # # # #	LAPD/MFO/S77/DL77_V01	1376	Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL77_V03 # # # # # # # # # # #	LAPD/MFO/S77/DL77_V03	1377	Verify that the IUT does not send an I frame when V(S)<V(A)+k (ie. window is open) in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after queuing the I frame.
DL77_V04 # # # # #	LAPD/MFO/S77/DL77_V04	1378	Verify that the IUT does not send an I frame (queued) when V(S)=V(A)+k (window is closed) in Multiple Frame Established state (7.0). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL77_V08	LAPD/MFO/S77/DL77_V08	1379	expected to remain in Multiple Frame Established state after sending no response. Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1. Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0. Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.7). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to enter TEI Assigned state after sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in
DL77_V10	LAPD/MFO/S77/DL77_V10	1380	
DL77_V12	LAPD/MFO/S77/DL77_V12	1381	
DL77_V13	LAPD/MFO/S77/DL77_V13	1382	
DL77_V14	LAPD/MFO/S77/DL77_V14	1383	

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Test Case Identifier	Test Case Reference		Description
DL77_V16	LAPD/MFO/S77/DL77_V16	1384	Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1. Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state. Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1. Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state
DL77_V17	LAPD/MFO/S77/DL77_V17	1385	
DL77_V20	LAPD/MFO/S77/DL77_V20	1386	
DL77_V21	LAPD/MFO/S77/DL77_V21	1387	

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Test Case Identifier	Test Case Reference		Description
# DL77_V23 # # # # # # #	LAPD/MFO/S77/DL77_V 23	1388	after sending no response. Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending no response.
# DL77_V24 # # # # # # #	LAPD/MFO/S77/DL77_V 24	1389	Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.
# DL77_V25 # # # # # # #	LAPD/MFO/S77/DL77_V 25	1390	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I.
# DL77_V26 # # # # # # #	LAPD/MFO/S77/DL77_V 26	1391	Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.

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Test Case Identifier	Test Case Reference		Description
# DL77_V27 # # # # # # #	LAPD/MFO/S77/DL77_V 27	1392	Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.
# DL77_V28 # # # # # # #	LAPD/MFO/S77/DL77_V 28	1393	Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
# DL77_V29 # # # # # # #	LAPD/MFO/S77/DL77_V 29	1394	Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
# DL77_V30 # # # # # # #	LAPD/MFO/S77/DL77_V 30	1395	Verify that the IUT sends an RNR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL77_V31	LAPD/MFO/S77/DL77_V 31	1396	Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.
DL77_V32	LAPD/MFO/S77/DL77_V 32	1397	Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.
DL77_V33	LAPD/MFO/S77/DL77_V 33	1398	Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL77_V34	LAPD/MFO/S77/DL77_V 34	1399	Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL77_V35	LAPD/MFO/S77/DL77_V 35	1400	Verify that the IUT retransmits an I frame in response to an

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Test Case Identifier	Test Case Reference		Description
DL77_V36	LAPD/MFO/S77/DL77_V 36	1401	REJ/F=0 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL77_V37	LAPD/MFO/S77/DL77_V 37	1402	Verify that the IUT sends a RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state after send RNR/F=1.
DL77_V38	LAPD/MFO/S77/DL77_V 38	1403	Verify that the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL77_V39	LAPD/MFO/S77/DL77_V 39	1404	Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL77_V40	LAPD/MFO/S77/DL77_V 40	1404	Verify that the IUT sends an RNR/F=1 in response to an RNR/P=1 with V(A) <= N(R) < V(S) received in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
#			(7.7). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer Busy
#			state after sending
#			RNR/F=1.
DL77_V41	LAPD/MFO/S77/DL77_V	1405	Verify the the IUT
#	41		sends nothing in
#			response to an RNR/P=0
#			with $V(A) \leq N(R) < V(S)$
#			received in Multiple
#			Frame Established state
#			(7.7). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Peer Busy
#			state.
DL77_V43	LAPD/MFO/S77/DL77_V	1406	Verify that the IUT
#	43		does not respond to an
#			RNR/F=0 response with V
#			$(A) \leq N(R) < V(S)$ received
#			in Multiple Frame
#			Established state (7.7)
#			. the IUT is expected
#			to remain in Multiple
#			Frame Established Peer
#			Busy state.
DL77_V44	LAPD/MFO/S77/DL77_V	1407	Verify that the IUT
#	44		sends an RNR/F=1 in
#			response to an I frame
#			received in Multiple
#			Frame Established state
#			(7.7). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established state after
#			sending RNR/F=1.
DL77_V45	LAPD/MFO/S77/DL77_V	1408	Verify that the IUT
#	45		sends nothing in
#			response to an I/P=0
#			received in Multiple
#			Frame Established state
#			(7.7). The IUT is
#			expected to remain in
#			Multiple Frame

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Test Case Identifier	Test Case Reference		Description
#			Established state.
DL77_V46	LAPD/MFO/S77/DL77_V	1409	Verify that the IUT
#	46		sends an RNR/F=1 in
#			response to an I/P=1
#			with $N(S) < V(R)$
#			received in Multiple
#			Frame Established state
#			(7.7). The IUT is
#			expected to remain in
#			Multiple Frame
#			Established Reject
#			Recovery state after
#			sending RNR/F=1.
DL77_V47	LAPD/MFO/S77/DL77_V	1410	Verify that the IUT
#	47		sends an nothing in
#			response to an I/P=0
#			with $N(S) < V(R)$
#			received in Multiple
#			Frame Established state
#			(7.7). The IUT is
#			expected to remain
#			Multiple Frame
#			Established state.
DL77_V48	LAPD/MFO/S77/DL77_V	1411	Verify that the IUT
#	48		sends a RNR/F=1 in
#			response to an I/P=1
#			frame with $V(A) < N(R) < V$
#			(S) received in
#			Multiple Frame
#			Established state (7.7)
#			. The IUT is expected
#			to remain in Multiple
#			Frame Established Peer
#			Receiver Busy/Reject
#			recovery & Own Busy
#			state after sending
#			RNR/F=1.
DL77_V49	LAPD/MFO/S77/DL77_V	1412	Verify that the IUT
#	49		sends nothing in
#			response to an I/P=0
#			received with $V(A) < N(R)$
#			$< V(S)$ in Multiple Frame
#			Established state (7.7)
#			. The IUT is expected
#			to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
DL77_V50	LAPD/MFO/S77/DL77_V50	1413	Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state. Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state after sending RNR/F=1.
DL77_V51	LAPD/MFO/S77/DL77_V51	1414	Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state.
DL77_V52	LAPD/MFO/S77/DL77_V52	1415	Verify that the IUT sends a RNR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject recovery & Own Busy

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Test Case Identifier	Test Case Reference		Description
DL77_V53	LAPD/MFO/S77/DL77_V53	1417	state after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 received with V(A)=N(R)<V(S) in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state.
DL77_V54	LAPD/MFO/S77/DL77_V54	1418	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state after sending RNR/F=1.
DL77_V55	LAPD/MFO/S77/DL77_V55	1420	Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)=N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state.
DL77_V56	LAPD/MFO/S77/DL77_V56	1421	Verify that the IUT sends an RNR/F=1 after

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Test Case Identifier	Test Case Reference		Description
DL77_V58	LAPD/MFO/S77/DL77_V58	1422	a T200 timeout in Multiple Frame Established state (7.7). The IUT is expected to enter Timer Recovery state (8.7) after sending RNR/F=1. Verify that the IUT sends an RR/F=0 when it clears OWN BUSY in Multiple Frame Established state (7.7). The IUT is expected to enter Multiple Frame Established state after sending RR/F=0.
DL77_N01	LAPD/MFO/S77/DL77_N01	1423	Verify that the IUT sends an RNR/F=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N02	LAPD/MFO/S77/DL77_N02	1424	Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.7). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.
DL77_N03	LAPD/MFO/S77/DL77_N03	1425	Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R)

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Test Case Identifier	Test Case Reference		Description
DL77_N04	LAPD/MFO/S77/DL77_N04	1426	error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RR/F=0 with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N05	LAPD/MFO/S77/DL77_N05	1427	Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N06	LAPD/MFO/S77/DL77_N06	1428	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N07	LAPD/MFO/S77/DL77_N07	1429	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference		Description
DL77_N08	LAPD/MFO/S77/DL77_N 08	1430	<p>Response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p> <p>Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p>
DL77_N09	LAPD/MFO/S77/DL77_N 09	1431	<p>Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an RNR/P=1 command with a N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p>
DL77_N10	LAPD/MFO/S77/DL77_N 10	1432	<p>Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending a</p>

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Test Case Identifier	Test Case Reference		Description
DL77_N11	LAPD/MFO/S77/DL77_N 11	1433	<p>SABME/P=1.</p> <p>Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p>
DL77_N12	LAPD/MFO/S77/DL77_N 12	1434	<p>Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p>
DL77_N13	LAPD/MFO/S77/DL77_N 13	1435	<p>Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.</p>
DL77_N14	LAPD/MFO/S77/DL77_N 14	1436	<p>Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter</p>

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Test Case Identifier	Test Case Reference		Description
DL77_N23	LAPD/MFO/S77/DL77_N 23	1445	expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.7). the IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N24	LAPD/MFO/S77/DL77_N 24	1446	Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N25	LAPD/MFO/S77/DL77_N 25	1447	Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.7) . The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_N26	LAPD/MFO/S77/DL77_N 26	1448	Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.7). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL77_N27	LAPD/MFO/S77/DL77_N 27	1449	expected to enter Awaiting Establishment state after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DL77_I01	LAPD/MFO/S77/DL77_I 01	1450	Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending no response.
DL77_I02	LAPD/MFO/S77/DL77_I 02	1451	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V (A)<N(R)<V(S) received in Multiple Frame Established state (7.7) . The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL77_I03	LAPD/MFO/S77/DL77_I 03	1452	Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V (A)=N(R)<V(S) received in Multiple frame Established state (7.7) . The IUT is expected to remain in Multiple

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Test Case Identifier	Test Case Reference		Description
DL77_I04	LAPD/MFC/S77/DL77_I04	1453	Frame Established state after sending I frame. Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.
DL77_I05	LAPD/MFC/S77/DL77_I05	1454	Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.
DL77_I06	LAPD/MFC/S77/DL77_I06	1455	Verify that the IUT sends nothing in response to an RNR/F=1 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL77_I07	LAPD/MFC/S77/DL77_I07	1456	Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.
DL80_V01	LAPD/MFC/S80/DL80_V01	1457	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference		Description
DL80_V03	LAPD/MFC/S80/DL80_V03	1458	response to a DL_EST_REQUEST received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (3.0) after sending SABME/P=1. Verify that the IUT does not send additional I frames in Timer Recovery state (8.0) even if V_S < V_A + K. The IUT is expected to remain in Timer Recovery state (8.0).
DL80_V04	LAPD/MFC/S80/DL80_V04	1459	Verify that the IUT does not send additional I frames in Timer Recovery state (8.0) when V_S = V_A + K (window is closed). The IUT is expected to remain in Timer Recovery state (8.0).
DL80_V08	LAPD/MFC/S80/DL80_V08	1460	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.
DL80_V10	LAPD/MFC/S80/DL80_V10	1461	Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
DL80_V12	LAPD/MFC/S80/DL80_V12	1462	Verify that the IUT sends a UA/F=1 in

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Test Case Identifier	Test Case Reference		Description
DL80_V13	LAPD/MFO/S80/DL80_V13	1463	response to a DISC/P=1 received in Timer Recovery state (8.0). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.0). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL80_V14	LAPD/MFO/S80/DL80_V14	1464	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_V15	LAPD/MFO/S80/DL80_V15	1465	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_V17	LAPD/MFO/S80/DL80_V17	1466	Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending

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Test Case Identifier	Test Case Reference		Description
DL80_V20	LAPD/MFO/S80/DL80_V20	1467	SABME/P=1. Verify that the IUT sends a RR/F=1 in response to a RR/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.
DL80_V21	LAPD/MFO/S80/DL80_V21	1468	Verify that the IUT sends nothing in response to a RR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending nothing.
DL80_V22	LAPD/MFO/S80/DL80_V22	1469	Verify that the IUT sends nothing in response to a RR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.0).
DL80_V23	LAPD/MFO/S80/DL80_V23	1470	Verify that the IUT sends nothing in response to a RR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0).
DL80_V24	LAPD/MFO/S80/DL80_V24	1471	Verify that the IUT sends a RR/F=1 in response to a REJ/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery

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Test Case Identifier	Test Case Reference		Description
#			state (8.0) after
#			sending RR/F=1.
DL80_V25	LAPD/MFO/S80/DL80_V	1472	Verify that the IUT
#	25		sends nothing in
#			response to a REJ/P=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.0).
DL80_V26	LAPD/MFO/S80/DL80_V	1473	Verify that the IUT
#	26		sends nothing in
#			response to a REJ/F=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Multiple Frame
#			Established state (7.0)
#			.
DL80_V27	LAPD/MFO/S80/DL80_V	1474	Verify that the IUT
#	27		sends nothing in
#			response to a REJ/F=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.0).
DL80_V28	LAPD/MFO/S80/DL80_V	1475	Verify that the IUT
#	28		sends a RR/F=1 in
#			response to a RNR/P=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.4) after
#			sending RR/F=1.
DL80_V29	LAPD/MFO/S80/DL80_V	1476	Verify that the IUT
#	29		sends nothing in
#			response to a RNR/P=0
#			(V_A<=N_R<=V_S)
#			received in Timer

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Test Case Identifier	Test Case Reference		Description
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.4).
DL80_V30	LAPD/MFO/S80/DL80_V	1477	Verify that the IUT
#	30		sends nothing in
#			response to a RNR/F=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Multiple Frame
#			Established state (7.4)
#			.
DL80_V31	LAPD/MFO/S80/DL80_V	1478	Verify that the IUT
#	31		sends nothing in
#			response to a RNR/F=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.4).
DL80_V32	LAPD/MFO/S80/DL80_V	1479	Verify that the IUT
#	32		sends a RR/F=1 in
#			response to a I/P=1
#			received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.0) after
#			sending RR/F=1.
DL80_V33	LAPD/MFO/S80/DL80_V	1480	Verify that the IUT
#	33		RR/F=0 in response to a
#			I/P=0 received in Timer
#			Recovery state (8.0).
#			The IUT is expected to
#			remain in Timer
#			Recovery state (8.0).
DL80_V34	LAPD/MFO/S80/DL80_V	1481	Verify that the IUT
#	34		sends a REJ/F=1 in
#			response to a I/P=1
#			(N_S<>V_R, N_R=V_S)
#			received in Timer
#			recovery state (8.0).

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Test Case Identifier	Test Case Reference		Description
DL80_V35	LAPD/MFO/S80/DL80_V 35	1482	The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=1. Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=0.
DL80_V36	LAPD/MFO/S80/DL80_V 36	1483	Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.
DL80_V37	LAPD/MFO/S80/DL80_V 37	1484	Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0 or I.
DL80_V38	LAPD/MFO/S80/DL80_V 38	1485	Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=1.
DL80_V39	LAPD/MFO/S80/DL80_V	1486	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL80_V40	LAPD/MFO/S80/DL80_V 40	1487	sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=0. Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.
DL80_V41	LAPD/MFO/S80/DL80_V 41	1488	Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0 or I.
DL80_V42	LAPD/MFO/S80/DL80_V 42	1489	Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=1.
DL80_V43	LAPD/MFO/S80/DL80_V 43	1490	Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.0).

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Test Case Identifier	Test Case Reference		Description
DL80_N06	LAPD/MFO/S80/DL80_N06	1500	be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N07	LAPD/MFO/S80/DL80_N07	1501	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N08	LAPD/MFO/S80/DL80_N08	1502	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N09	LAPD/MFO/S80/DL80_N09	1503	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N10	LAPD/MFO/S80/DL80_N10	1504	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL80_N10	10		sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N11	LAPD/MFO/S80/DL80_N11	1505	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N12	LAPD/MFO/S80/DL80_N12	1506	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N13	LAPD/MFO/S80/DL80_N13	1507	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R=V_S+K+1) received in timer recovery state (8.0). The IUT is expected to be in awaiting establishment state (5.1) after sending SABME/P=1.
DL80_N14	LAPD/MFO/S80/DL80_N14	1508	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S=V_R, N_R=V_S+K+1) received in Timer

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Test Case Identifier	Test Case Reference	Description
DL80_N15	LAPD/MFC/S80/DL80_N 15	1509 Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N S<>V R, N R=V S=K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL80_N16	LAPD/MFC/S80/DL80_N 16	1510 Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N S<>V R, N R=V S=K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL80_N17	LAPD/MFC/S80/DL80_N 17	1511 Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N18	LAPD/MFC/SAB/DL80_N 18	1512 Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state

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Test Case Identifier	Test Case Reference	Description
DL80_N19	LAPD/MFC/SB/DL80_N 19	1513 (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL80_N20	LAPD/MFC/FRMR/DL80_N 20	1514 Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL80_N21	LAPD/MFC/S80/DL80_N 21	1515 Verify that the IUT sends a SABME/P=1 in response to a FRMR frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N22	LAPD/MFC/S80/DL80_N 22	1516 Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to

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Test Case Identifier	Test Case Reference		Description
DL80_N23	LAPD/MFO/S80/DL80_N 23	1517	be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N24	LAPD/MFO/S80/DL80_N 24	1518	Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N25	LAPD/MFO/S80/DL80_N 25	1519	Verify that the IUT sends a SABME/P=1 in response to a I frame with excess length (N201 error) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL80_N26	LAPD/MFO/S80/DL80_N 26	1520	Verify that the IUT sends a SABME/P=1 in response to undefined frame received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL80_N27	LAPD/MFO/S80/DL80_N 27	1521	1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a frame in error (I field not permitted) in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V01	LAPD/MFO/S81/DL81_V 01	1522	Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.
DL81_V03	LAPD/MFO/S81/DL81_V 03	1523	Verify that the IUT does not send additional I frames in Timer Recovery state (8.1) even if $V_S < V_A + K$. The IUT is expected to remain in Timer Recovery state (8.1).
DL81_V04	LAPD/MFO/S81/DL81_V 04	1524	Verify that the IUT does not send additional I frames in Timer Recovery state (8.1) when $V_S = V_A + K$ (window closed). The IUT is expected to remain in Timer Recovery state (8.1).
DL81_V08	LAPD/MFO/S81/DL81_V 08	1525	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.1).

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Test Case Identifier	Test Case Reference		Description
#			The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.
DL81_V10	LAPD/MFO/S81/DL81_V 10	1526	Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
#			Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL81_V12	LAPD/MFO/S81/DL81_V 12	1527	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
#			Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL81_V13	LAPD/MFO/S81/DL81_V 13	1528	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V14	LAPD/MFO/S81/DL81_V 14	1529	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V15	LAPD/MFO/S81/DL81_V 15	1530	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer

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Test Case Identifier	Test Case Reference		Description
#			Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V17	LAPD/MFO/S81/DL81_V 17	1531	Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V20	LAPD/MFO/S81/DL81_V 20	1532	Verify that the IUT sends a RR/F=1 in response to a RR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.
DL81_V21	LAPD/MFO/S81/DL81_V 21	1533	Verify that the IUT sends nothing in response to a RR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).
DL81_V22	LAPD/MFO/S81/DL81_V 22	1534	Verify that the IUT send nothing in response to a RR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.1).

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Test Case Identifier	Test Case Reference		Description
DL81_V23	LAPD/MFO/S81/DL81_V 23	1535	Verify that the IUT sends nothing in response to a RR/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).
DL81_V24	LAPD/MFO/S81/DL81_V 24	1536	Verify that the IUT sends a RR/F=1 in response to a REJ/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.
DL81_V25	LAPD/MFO/S81/DL81_V 25	1537	Verify that the IUT sends nothing in response to a REJ/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).
DL81_V26	LAPD/MFO/S81/DL81_V 26	1538	Verify that the IUT send nothing in response to a REJ/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.1).
DL81_V27	LAPD/MFO/S81/DL81_V 27	1539	Verify that the IUT sends nothing in response to a REJ/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to

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Test Case Identifier	Test Case Reference		Description
DL81_V28	LAPD/MFO/S81/DL81_V 28	1540	be in Timer Recovery state (8.1). Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.
DL81_V29	LAPD/MFO/S81/DL81_V 29	1541	Verify that the IUT sends nothing in response to a RNR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5).
DL81_V30	LAPD/MFO/S81/DL81_V 30	1542	Verify that the IUT send nothing in response to a RNR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.5).
DL81_V31	LAPD/MFO/S81/DL81_V 31	1543	Verify that the IUT sends nothing in response to a RNR/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5).
DL81_V32	LAPD/MFO/S81/DL81_V 32	1544	Verify that the IUT sends a RR/F=1 in response to a I/P=1 received in Timer Recovery state (8.1).

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Test Case Identifier	Test Case Reference		Description
DL81_V42	LAPD/MFO/S81/DL81_V 42	1554	Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S <> V_R, V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.
DL81_V43	LAPD/MFO/S81/DL81_V 43	1555	Verify that the IUT sends nothing in response to a I/P=0 (N_S <> V_R, V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).
DL81_V44	LAPD/MFO/S81/DL81_V 44	1556	Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_V45	LAPD/MFO/S81/DL81_V 45	1557	Verify that the IUT sends a RR/P=1 or retransmits I/P=1 after a timeout T200 (RC<N200, V_A<V_S) in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/P=1 or I/P=1.
DL81_V46	LAPD/MFO/S81/DL81_V 46	1558	Verify that the IUT sends a RR/P=1 in response to a timeout T200 (RC < N200, V_A = V_S) received in Timer Recovery state (8.1).

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Test Case Identifier	Test Case Reference		Description
DL81_N41	LAPD/MFO/S81/DL81_V 47	1559	The IUT is expected to be in Timer Recovery state (8.1) after sending RR/P=1. Verify that the IUT sends a RNR/P=1 when it sets OWN_BUSY in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery 8.3 after sending RNR/P=1.
DL81_N42	LAPD/MFO/S81/DL81_N 41	1560	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N43	LAPD/MFO/S81/DL81_N 02	1561	Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N03	LAPD/MFO/S81/DL81_N 03	1562	Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N44	LAPD/MFO/S81/DL81_N 04	1563	Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N

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Test Case Identifier	Test Case Reference		Description
DL81_N13	LAPD/MFO/S81/DL81_N13	1572	The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N14	LAPD/MFO/S81/DL81_N14	1573	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N15	LAPD/MFO/S81/DL81_N15	1574	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N16	LAPD/MFO/S81/DL81_N16	1575	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL81_N17	LAPD/MFO/S81/DL81_N17	1576	expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N18	LAPD/MFO/S81/DL81_N18	1577	Verify that the IUT sends a SABME/P=1 in response to a DISC with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N19	LAPD/MFO/S81/DL81_N19	1578	Verify that the IUT sends a SABME/P=1 in response to a UA with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N20	LAPD/MFO/S81/DL81_N20	1579	Verify that the IUT sends a SABME/P=1 in response to a DM with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL81_N21 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 21	1580	Verify that the IUT sends a SABME/P=1 in response to a FRMR with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N22 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 22	1581	Verify that the IUT sends a SABME/P=1 in response to a RR with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N23 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 23	1582	Verify that the IUT sends a SABME/P=1 in response to a RNR with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N24 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 24	1583	Verify that the IUT sends a SABME/P=1 in response to a REJ with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL81_N25 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 25	1584	Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received

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Test Case Identifier	Test Case Reference		Description
DL81_N26 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 26	1585	in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL81_N27 # # # # # # # # # # #	LAPD/MFO/S81/DL81_N 27	1586	Verify that the IUT sends a SABME/P=1 in response to a frame in error (I field not permitted) in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL82_V01 # # # # # # # # # # #	LAPD/MFO/S82/DL82_V 01	1587	Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.
DL82_V03 # # # # # # # # # # #	LAPD/MFO/S82/DL82_V 03	1588	Verify that the IUT does not send additional I frame in Timer Recovery state (8.2) even if V_S < V_A +K. The IUT is expected to be in Timer Recovery

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Test Case Identifier	Test Case Reference		Description
DL82_V04	LAPD/MFO/S82/DL82_V04	1589	state (8.2). Verify that the IUT does not send additional I frame in Timer Recovery state (8.2) when $V_S = V_A + K$ (window is closed). The IUT is expected to remain in Timer Recovery state (8.2).
DL82_V08	LAPD/MFO/S82/DL82_V08	1590	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.
DL82_V10	LAPD/MFO/S82/DL82_V10	1591	Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
DL82_V12	LAPD/MFO/S82/DL82_V12	1592	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.2). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL82_V13	LAPD/MFO/S82/DL82_V13	1593	Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.2). The IUT is expected to be in TEI Assigned state (4.0) after

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Test Case Identifier	Test Case Reference		Description
DL82_V14	LAPD/MFO/S82/DL82_V14	1594	sending UA/F=0. Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_V15	LAPD/MFO/S82/DL82_V15	1595	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_V17	LAPD/MFO/S82/DL82_V17	1596	Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_V20	LAPD/MFO/S82/DL82_V20	1597	Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 ($V_A < N_R < V_S$) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL82_V21	LAPD/MFO/S82/DL82_V21	1598	Verify that the IUT sends nothing in response to RR/P=0 ($V_A < N_R < V_S$) received in Timer

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Test Case Identifier	Test Case Reference		Description
# # # DL82_V22 # # # # # # #	LAPD/MFO/S82/DL82_V 22	1599	Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2). Verify that the IUT sends nothing in response to a RR/F=1 (V _A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.2)
# # # DL82_V23 # # # # # # #	LAPD/MFO/S82/DL82_V 23	1600	. Verify that the IUT sends nothing in response to a RR/F=0 (V _A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).
# # # DL82_V24 # # # # # # #	LAPD/MFO/S82/DL82_V 24	1601	Verify that the IUT sends a RNR/F=1 in response to a REJ/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
# # # DL82_V25 # # # # # # #	LAPD/MFO/S82/DL82_V 25	1602	Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).
# # # DL82_V26 # # # # # # #	LAPD/MFO/S82/DL82_V 26	1603	Verify that the IUT sends nothing in response to a REJ/F=1 (V_A<=N_R<=V_S)

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Test Case Identifier	Test Case Reference		Description
# # # # DL82_V27 # # # # # # #	LAPD/MFO/S82/DL82_V 27	1604	received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.2)
# # # DL82_V28 # # # # # # #	LAPD/MFO/S82/DL82_V 28	1605	. Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).
# # # DL82_V29 # # # # # # #	LAPD/MFO/S82/DL82_V 29	1606	Verify that the IUT sends a RNR/F=1 in response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.
# # # DL82_V29 # # # # # # #	LAPD/MFO/S82/DL82_V 29	1606	Verify that the IUT sends nothing in response to a RNR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6).
# # # DL82_V30 # # # # # # #	LAPD/MFO/S82/DL82_V 30	1608	Verify that the IUT sends nothing in response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.6)
# # # DL82_V31 # # # # # # #	LAPD/MFO/S82/DL82_V 31	1609	. Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL82_V32	LAPD/MFO/S82/DL82_V 32	1610	sends nothing in response to RNR/F=0 (V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6). Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.2). The IUT is expected to be in timer recovery state (8.2) after sending RNR/F=1.
DL82_V33	LAPD/MFO/S82/DL82_V 33	1611	Verify that the IUT sends nothing in response to a I/P=0 received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL82_V34	LAPD/MFO/S82/DL82_V 34	1612	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL82_V35	LAPD/MFO/S82/DL82_V 35	1613	Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).
DL82_V36	LAPD/MFO/S82/DL82_V 36	1614	Verify that the IUT sends a RNR/F=1 in

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Test Case Identifier	Test Case Reference		Description
DL82_V37	LAPD/MFO/S82/DL82_V 37	1615	response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL82_V38	LAPD/MFO/S82/DL82_V 38	1616	Verify that the IUT sends nothing in response to a I/P=0 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).
DL82_V39	LAPD/MFO/S82/DL82_V 39	1617	Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL82_V40	LAPD/MFO/S82/DL82_V 40	1618	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after

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Test Case Identifier	Test Case Reference		Description
# DL82_V41 # # # # # # DL82_V42 # # # # # # DL82_V43 # # # # # DL82_V44 # # # # # # DL82_V45 # # # #	LAPD/MFO/S82/DL82_V 41 LAPD/MFO/S82/DL82_V 42 LAPD/MFO/S82/DL82_V 43 LAPD/MFO/S82/DL82_V 44 LAPD/MFO/S82/DL82_V 45	1619 1620 1621 1622 1623	sending RNR/F=1. Verify that the IUT sends nothing in response to a I/P=0 (N_S<V_R_V_A=N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2). Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R_V_A=N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1. Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R_V_A=N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2). Verify that the IUT sends a SABME/P=1 in response to a timeout T200 (RC=N200) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a RNR/P=1 or retransmits I/P=1 after a timeout T200 (RC=N200, V_A<V_S) in Timer Recovery state (8.2).

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Test Case Identifier	Test Case Reference		Description
# # # DL82_V46 # # # # # # DL82_V48 # # # # # DL82_N01 # # # # # DL82_N02 # # # # # DL82_N03	LAPD/MFO/S82/DL82_V 46 LAPD/MFO/S82/DL82_V 48 LAPD/MFO/S82/DL82_N 01 LAPD/MFO/S82/DL82_N 02 LAPD/MFO/S82/DL82_N	1624 1625 1626 1627 1628	The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/P=1 or I/P=1. Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC=N200,V_A=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/P=1. Verify that the IUT sends a RR/F=0 in response to a CLEAR OWN _BUSY received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0. Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N _R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N _R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL82_N04	LAPD/MFO/S82/DL82_N04	1629	sends a SABME/P=1 in response to a RR/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N05	LAPD/MFO/S82/DL82_N05	1630	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N06	LAPD/MFO/S82/DL82_N06	1631	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N07	LAPD/MFO/S82/DL82_N07	1632	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL82_N08	LAPD/MFO/S82/DL82_N08	1633	expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N09	LAPD/MFO/S82/DL82_N09	1634	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N10	LAPD/MFO/S82/DL82_N10	1635	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N11	LAPD/MFO/S82/DL82_N11	1636	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is
DL82_N12	LAPD/MFO/S82/DL82_N12	1637	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is

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Test Case Identifier	Test Case Reference		Description
#	12		sends a SABME/P=1 in response to a RNR/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N13	LAPD/MFO/S82/DL82_N13	1638	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N14	LAPD/MFO/S82/DL82_N14	1639	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N15	LAPD/MFO/S82/DL82_N15	1640	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N16	LAPD/MFO/S82/DL82_N16	1641	Verify that the IUT sends a SABME/P=1 in response to a I/P=0

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Test Case Identifier	Test Case Reference		Description
DL82_N17	LAPD/MFO/S82/DL82_N17	1642	(N_S<>V_R, N_R:=(V_S+K)+1)) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N18	LAPD/MFO/S82/DL82_N18	1643	Verify that the IUT sends a SABME/P=1 in response to a DISC with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N19	LAPD/MFO/S82/DL82_N19	1644	Verify that the IUT sends a SABME/P=1 in response to a UA with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N20	LAPD/MFO/S82/DL82_N20	1645	Verify that the IUT sends a SABME/P=1 in response to a DM with excess length received in Timer Recovery state (8.2). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL82_N21	LAPD/MFO/S82/DL82_N 21	1646	expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a FRMR with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N22	LAPD/MFO/S82/DL82_N 22	1647	Verify that the IUT sends a SABME/P=1 in response to a RR with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N23	LAPD/MFO/S82/DL82_N 23	1648	Verify that the IUT sends a SABME/P=1 in response to a RNR with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N24	LAPD/MFO/S82/DL82_N 24	1649	Verify that the IUT sends a SABME/P=1 in response to a REJ with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N25	LAPD/MFO/S82/DL82_N	1650	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL82_N26	LAPD/MFO/S82/DL82_N 26	1651	sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL82_N27	LAPD/MFO/S82/DL82_N 27	1652	Verify that the IUT sends a SABME/P=1 in response to a frame in error(I field not permitted) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_V01	LAPD/MFO/S83/DL83_V 01	1653	Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.
DL83_V02	LAPD/MFO/S83/DL83_V 03	1654	Verify that the IUT does not send additional I frames in

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Test Case Identifier	Test Case Reference	Description
# # # DL83_V04 # # # # # # #	LAPD/MFO/S83/DL83_V 04	1655 Timer Recovery state (8.3) even if $V_S < V_A + K$. The IUT is expected to be in Timer Recovery state (8.3). Verify that the IUT does not send additional I frames in Timer Recovery state (8.3) when $V_S = V_A + K$ (window is closed). The IUT is expected to remain in Timer Recovery state (8.3). Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
# # # DL83_V08 # # # # # # #	LAPD/MFO/S83/DL83_V 08	1656 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
# # # DL83_V10 # # # # # # #	LAPD/MFO/S83/DL83_V 10	1657 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
# # # DL83_V12 # # # # # # #	LAPD/MFO/S83/DL83_V 12	1658 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer
# # # DL83_V13 # # # # # # #	LAPD/MFO/S83/DL83_V 13	1659 Verify that the IUT sends a UA/F=1 in response to a DISC/P=0 received in Timer

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Test Case Identifier	Test Case Reference	Description
# # # # DL83_V14 # # # # # # #	LAPD/MFO/S83/DL83_V 14	1660 Recovery state (8.3). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
# # # DL83_V15 # # # # # # #	LAPD/MFO/S83/DL83_V 15	1661 Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
# # # DL83_V17 # # # # # # #	LAPD/MFO/S83/DL83_V 17	1662 Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting establishment state (5.1) after sending SABME/P=1.
# # # DL83_V20 # # # # # # #	LAPD/MFO/S83/DL83_V 20	1663 Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 ($V_A \leq N_R \leq V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL83_V21	LAPD/MFO/S83/DL83_V 21	1664	Verify that the IUT sends nothing in response to a RR/P=0 (V _A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).
DL83_V22	LAPD/MFO/S83/DL83_V 22	1665	Verify that the IUT sends nothing in response to a RR/F=1 (V _A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.3).
DL83_V23	LAPD/MFO/S83/DL83_V 23	1666	Verify that the IUT sends nothing in response to a RR/F=0 (V _A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).
DL83_V24	LAPD/MFO/S83/DL83_V 24	1667	Verify that the IUT sends a RNR/F=1 in response to a REJ/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL83_V25	LAPD/MFO/S83/DL83_V 25	1668	Verify that the IUT sends nothing response to a REJ/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer

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Test Case Identifier	Test Case Reference		Description
DL83_V26	LAPD/MFO/S83/DL83_V 26	1669	Recovery state (8.3). Verify that the IUT sends nothing in response to a REJ/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.3).
DL83_V27	LAPD/MFO/S83/DL83_V 27	1670	Verify that the IUT sends nothing in response to a REJ/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).
DL83_V28	LAPD/MFO/S83/DL83_V 28	1671	Verify that the IUT sends a RNR/F=1 in response to a RNR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.
DL83_V29	LAPD/MFO/S83/DL83_V 29	1672	Verify that the IUT sends nothing in response to a RNR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7).
DL83_V30	LAPD/MFO/S83/DL83_V 30	1673	Verify that the IUT sends nothing in response to a RNR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3).

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Test Case Identifier	Test Case Reference		Description
DL83_V31	LAPD/MFO/S83/DL83_V 31	1674	The IUT is expected to be in Multiple Frame Established state (7.7). Verify that the IUT sends nothing in response to a RNR/F=0 ($V_A \leq N_R \leq V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7).
DL83_V32	LAPD/MFO/S83/DL83_V 32	1675	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL83_V33	LAPD/MFO/S83/DL83_V 33	1676	Verify that the IUT sends nothing in response to a I/P=0 received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).
DL83_V34	LAPD/MFO/S83/DL83_V 34	1677	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 ($N_S \neq V_R, N_R = V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL83_V35	LAPD/MFO/S83/DL83_V 35	1678	Verify that the IUT sends nothing in response to a I/P=0 ($N_S \neq V_R, N_R = V_S$) received in Timer

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Test Case Identifier	Test Case Reference		Description
DL83_V36	LAPD/MFO/S83/DL83_V 36	1679	Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3). Verify that the IUT sends a RNR/F=1 in response to a I/P=1 ($N_S = V_R, V_A < N_R < V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL83_V37	LAPD/MFO/S83/DL83_V 37	1680	Verify that the IUT sends nothing in response to a I/P=0 ($N_S = V_R, V_A < N_R < V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.
DL83_V38	LAPD/MFO/S83/DL83_V 38	1681	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 ($N_S \neq V_R, V_A < N_R < V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL83_V39	LAPD/MFO/S83/DL83_V 39	1682	Verify that the IUT sends nothing in response to a I/P=0 ($N_S \neq V_R, V_A < N_R < V_S$) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.
DL83_V40	LAPD/MFO/S83/DL83_V 40	1683	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL83_V41	LAPD/MFO/S83/DL83_V 41	1684	sends a RNR/F=1 in response to a I/P=1 (N_S = V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1. Verify that the IUT sends a nothing in response to a I/P=0 (N_S = V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.
DL83_V42	LAPD/MFO/S83/DL83_V 42	1685	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S < V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1. Verify that the IUT sends nothing in response to an I/P=0 (N_S < V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.
DL83_V43	LAPD/MFO/S83/DL83_V 43	1686	Verify that the IUT sends a SABME/P=1 in response to a timeout T200 (RC = N200) received in Timer Recovery state (8.3).
DL83_V44	LAPD/MFO/S83/DL83_V 44	1687	Verify that the IUT sends a SABME/P=1 in response to a timeout T200 (RC = N200) received in Timer Recovery state (8.3).

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Test Case Identifier	Test Case Reference		Description
DL83_V45	LAPD/MFO/S83/DL83_V 45	1688	The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a RNR/P=1 or retransmits I/P=1 after a timeout T200 (RC < N200, V_A < V_S) in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/P=1 or I/P=1.
DL83_V46	LAPD/MFO/S83/DL83_V 46	1689	Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC < N200, V_A = V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/P=1.
DL83_V47	LAPD/MFO/S83/DL83_V 47	1690	Verify that the IUT sends a RR/F=0 in response to a CLEAR_OWN_BUSY received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=0.
DL83_V48	LAPD/MFO/S83/DL83_V 48	1691	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL83_N02 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 02	1692	Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N _R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N03 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 03	1693	Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 (N _R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N04 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 04	1694	Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N _R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N05 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 05	1695	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N06 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 06	1696	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1)

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Test Case Identifier	Test Case Reference		Description
DL83_N07 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 07	1697	received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N08 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 08	1698	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N09 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 09	1699	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N10 # # # # # # # # # #	LAPD/MFO/S83/DL83_N 10	1700	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer

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Test Case Identifier	Test Case Reference	Description
DL83_N11	LAPD/MFC/S83/DL83_N 11	1701 Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N12	LAPD/MFC/S83/DL83_N 12	1702 Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N13	LAPD/MFC/S83/DL83_N 13	1703 Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S = V_R, N_R = V_S+K +1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1.
DL83_N14	LAPD/MFC/S83/DL83_N 14	1704 Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S = V_R, N_R = V_S+K +1) received in Timer Recovery state (8.3).

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Test Case Identifier	Test Case Reference	Description
DL83_N15	LAPD/MFC/S83/DL83_N 15	1705 The IUT is expected to be in Awaiting Establishment state (5. 1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N16	LAPD/MFC/S83/DL83_N 16	1706 Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N17	LAPD/MFC/S83/DL83_N 17	1707 Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N18	LAPD/MFC/S83/DL83_N 18	1708 Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.3). The IUT is

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Test Case Identifier	Test Case Reference		Description
DL83_N19	LAPD/MFO/S83/DL83_N19	1709	expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a UA frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N20	LAPD/MFO/S83/DL83_N20	1710	Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N21	LAPD/MFO/S83/DL83_N21	1711	Verify that the IUT sends a SABME/P=1 in response to a FRMR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N22	LAPD/MFO/S83/DL83_N22	1712	Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting

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Test Case Identifier	Test Case Reference		Description
DL83_N23	LAPD/MFO/S83/DL83_N23	1713	Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N24	LAPD/MFO/S83/DL83_N24	1714	Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N25	LAPD/MFO/S83/DL83_N25	1715	Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL83_N26	LAPD/MFO/S83/DL83_N26	1716	Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference	Description
DL83_V1	LAPD/MFO/S83/DL83_V1	1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a frame in error(1 field not permitted) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_V1	LAPD/MFO/S84/DL84_V1	1718 Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.4).The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.
DL84_V03	LAPD/MFO/S84/DL84_V3	1719 Verify that the IUT does not send additional I Frames in Timer Recovery state (8.4) even if V_S<V_A+K. The IUT is expected to remain in Timer Recovery state (8.4).
DL84_V11	LAPD/MFO/S84/DL84_V11	1720 Verify that the IUT does not send additional I Frames in Timer Recovery state (8.4) when V_S=V_A+K (window is closed) The IUT is expected to remain in Timer Recovery state (8.4).
DL84_V08	LAPD/MFO/S84/DL84_V08	1721 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer

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Test Case Identifier	Test Case Reference	Description
DL84_V12	LAPD/MFO/S84/DL84_V12	1722 Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
DL84_V13	LAPD/MFO/S84/DL84_V13	1723 Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.4). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL84_V14	LAPD/MFO/S84/DL84_V14	1724 Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL84_V15	LAPD/MFO/S84/DL84_V15	1725 Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_V16	LAPD/MFO/S84/DL84_V16	1726 Verify that the IUT sends a SABME/P=1 in response to a DM/F=0

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Test Case Identifier	Test Case Reference	Description
DL84_V17	LAPD/MFO/S84/DL84_V17	1727
DL84_V20	LAPD/MFO/S84/DL84_V20	1728
DL84_V21	LAPD/MFO/S84/DL84_V21	1729
DL84_V22	LAPD/MFO/S84/DL84_V22	1730
DL84_V23	LAPD/MFO/S84/DL84_V23	1731

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Test Case Identifier	Test Case Reference	Description
DL84_V24	LAPD/MFO/S84/DL84_V24	1732
DL84_V25	LAPD/MFO/S84/DL84_V25	1733
DL84_V26	LAPD/MFO/S84/DL84_V26	1734
DL84_V27	LAPD/MFO/S84/DL84_V27	1735

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Test Case Identifier	Test Case Reference		Description
DL84_V28	LAPD/MFO/S84/DL84_V 28	1736	Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL84_V29	LAPD/MFO/S84/DL84_V 29	1737	Verify that the IUT sends nothing in response to a RNR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4).
DL84_V30	LAPD/MFO/S84/DL84_V 30	1738	Verify that the IUT sends nothing in response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.4).
DL84_V31	LAPD/MFO/S84/DL84_V 31	1739	Verify that the IUT sends nothing in response to a RNR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4).
DL84_V32	LAPD/MFO/S84/DL84_V 32	1740	Verify that the IUT sends a RR/F=1 in response to a I/P=1 received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.

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Test Case Identifier	Test Case Reference		Description
DL84_V33	LAPD/MFO/S84/DL84_V 33	1741	state (8.4) after sending RR/F=1. Verify that the IUT sends a RR/F=0 in response to a I/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.
DL84_V34	LAPD/MFO/S84/DL84_V 34	1742	Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.
DL84_V35	LAPD/MFO/S84/DL84_V 35	1743	Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=0.
DL84_V36	LAPD/MFO/S84/DL84_V 36	1744	Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL84_V37	LAPD/MFO/S84/DL84_V 37	1745	Verify that the IUT sends a RR/F=0 in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.4).

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Test Case Identifier	Test Case Reference		Description
#			received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.
DL84_V38	LAPD/MFO/S84/DL84_V38	1746	Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.
DL84_V39	LAPD/MFO/S84/DL84_V39	1747	Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=0.
DL84_V40	LAPD/MFO/S84/DL84_V40	1748	Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL84_V41	LAPD/MFO/S84/DL84_V41	1749	Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.4) after

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Test Case Identifier	Test Case Reference		Description
DL84_V42	LAPD/MFO/S84/DL84_V42	1750	sending RR/F=0. Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R V_A=N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.
DL84_V43	LAPD/MFO/S84/DL84_V43	1751	Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<>V_R V_A=N_R<V_S) received in Timer Recovery state (8.4).
#			The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=0.
DL84_V44	LAPD/MFO/S84/DL84_V44	1752	Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_V45	LAPD/MFO/S84/DL84_V45	1753	Verify that the IUT sends a RR/P=1 after a timeout T200 (RC<N200,V_A<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=1.
DL84_V46	LAPD/MFO/S84/DL84_V46	1754	Verify that the IUT sends a RR/P=1 in response to a timeout T200 (RC<N200,V_A=V_S) received in Timer Recovery state (8.4).

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Test Case Identifier	Test Case Reference		Description
DL84_V47	LAPD/MFO/S84/DL84_V47	1755	The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=1. Verify that the IUT sends a RNR/P=1 in response to a SET_OWN_BUSY received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/P=1.
DL84_N01	LAPD/MFO/S84/DL84_N01	1756	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N02	LAPD/MFO/S84/DL84_N02	1757	Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N03	LAPD/MFO/S84/DL84_N03	1758	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N04	LAPD/MFO/S84/DL84_N04	1759	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference		Description
DL84_N05	LAPD/MFO/S84/DL84_N05	1760	response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N06	LAPD/MFO/S84/DL84_N06	1761	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N07	LAPD/MFO/S84/DL84_N07	1762	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N08	LAPD/MFO/S84/DL84_N08	1763	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R = V_S+K+1)

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Test Case Identifier	Test Case Reference	Description
#		received in Timer
#		Recovery state (8.4).
#		The IUT is expected to
#		be in Awaiting
#		Establishment state (5.
#		1) after sending
#		SABME/P=1.
DL84_N09	LAPD/MFO/S84/DL84_N	1764
#	09	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a RNR/P=1
#		(N_R = V_S+K+1)
#		received in Timer
#		Recovery state (8.4).
#		The IUT is expected to
#		be in Awaiting
#		Establishment state (5.
#		1) after sending
#		SABME/P=1.
DL84_N10	LAPD/MFO/S84/DL84_N	1765
#	10	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a RNR/P=0
#		(N_R = V_S+K+1)
#		received in Timer
#		Recovery state (8.4).
#		The IUT is expected to
#		be in Awaiting
#		Establishment state (5.
#		1) after sending
#		SABME/P=1.
DL84_N11	LAPD/MFO/S84/DL84_N	1766
#	11	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a RNR/F=1
#		(N_R = V_S+K+1)
#		received in Timer
#		Recovery state (8.4).
#		The IUT is expected to
#		be in Awaiting
#		Establishment state (5.
#		1) after sending
#		SABME/P=1.
DL84_N12	LAPD/MFO/S84/DL84_N	1767
#	12	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a RNR/F=0
#		(N_R = V_S+K+1)
#		received in Timer

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Test Case Identifier	Test Case Reference	Description
#		Recovery state (8.4).
#		The IUT is expected to
#		be in Awaiting
#		Establishment state (5.
#		1) after sending
#		SABME/P=1.
DL84_N13	LAPD/MFO/S84/DL84_N	1768
#	13	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a I/P=1
#		(N_S=V_R, N_R =
#		V_S+K+1) received in
#		Timer Recovery state
#		(8.4). The IUT is
#		expected to be in
#		Awaiting Establishment
#		state (5.1) after
#		sending SABME/P=1.
DL84_N14	LAPD/MFO/S84/DL84_N	1769
#	14	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a I/P=0
#		(N_S=V_R, N_R =
#		V_S+K+1) received in
#		Timer Recovery state
#		(8.4). The IUT is
#		expected to be in
#		Awaiting Establishment
#		state (5.1) after
#		sending SABME/P=1.
DL84_N15	LAPD/MFO/S84/DL84_N	1770
#	15	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a I/P=1
#		(N_S<>V_R, N_R =
#		V_S+K+1) received in
#		Timer Recovery state
#		(8.4). The IUT is
#		expected to be in
#		Awaiting Establishment
#		state (5.1) after
#		sending SABME/P=1.
DL84_N16	LAPD/MFO/S84/DL84_N	1771
#	16	Verify that the IUT
#		sends a SABME/P=1 in
#		response to a I/P=0
#		(N_S<>V_R, N_R =
#		V_S+K+1) received in
#		Timer Recovery state

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Test Case Identifier	Test Case Reference	Description
1772	LAPD/MFC/SB4/DL84_N 17	(8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1773	LAPD/MFC/SB4/DL84_N 18	Verify that the IUT sends a SABME/P=1 in response to a DISC/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1774	LAPD/MFC/SB4/DL84_N 19	Verify that the IUT sends a SABME/P=1 in response to a UA/F=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1775	LAPD/MFC/SB4/DL84_N 20	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference	Description
1776	LAPD/MFC/SB4/DL84_N 21	Verify that the IUT sends a SABME/P=1 in response to a DMK/F=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1777	LAPD/MFC/SB4/DL84_N 22	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1778	LAPD/MFC/SB4/DL84_N 23	Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
1779	LAPD/MFC/SB4/DL84_N 24	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL84_N25	LAPD/MFO/S84/DL84_N 25	1780	Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N26	LAPD/MFO/S84/DL84_N 26	1781	Verify that the IUT sends a SABME/P=1 in response to an undefined command frame received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL84_N27	LAPD/MFO/S84/DL84_N 27	1782	Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not permitted) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_V01	LAPD/MFO/S85/DL85_V 01	1783	Verify that the IUT sends a SABME/P=1 in response to a DL_EST REQUEST received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.0) after

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Test Case Identifier	Test Case Reference		Description
DL85_V03	LAPD/MFO/S85/DL85_V 03	1784	Verify that the IUT does not send additional I frames in Timer Recovery state (8.5) even if $V_S < V_A + K$. The IUT is expected to remain in Timer Recovery state (8.5).
DL85_V04	LAPD/MFO/S85/DL85_V 04	1785	Verify that the IUT sends nothing in response to a I ($V_S = V_A + K$) in queue in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).
DL85_V06	LAPD/MFO/S85/DL85_V 06	1786	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.0) after sending UA/F=1.
DL85_V10	LAPD/MFO/S85/DL85_V 10	1787	Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.0) after sending UA/F=0.
DL85_V12	LAPD/MFO/S85/DL85_V 12	1788	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL85_V13	LAPD/MFO/S85/DL85_V 13	1789	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL85_V13	LAPD/MFO/S85/DL85_V 13	1790	sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL85_V14	LAPD/MFO/S85/DL85_V 14	1791	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_V15	LAPD/MFO/S85/DL85_V 15	1792	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_V17	LAPD/MFO/S85/DL85_V 17	1793	Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_V20	LAPD/MFO/S85/DL85_V 20	1794	Verify that the IUT sends a RR/P=1 in response to a RR/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer

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Test Case Identifier	Test Case Reference		Description
DL85_V21	LAPD/MFO/S85/DL85_V 21	1794	Recovery state (8.1) after sending RR/F=1. Verify that the IUT sends nothing in response to a RR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).
DL85_V22	LAPD/MFO/S85/DL85_V 22	1795	Verify that the IUT sends nothing in response to a RR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.1).
DL85_V23	LAPD/MFO/S85/DL85_V 23	1796	Verify that the IUT sends nothing in response to a RR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).
DL85_V24	LAPD/MFO/S85/DL85_V 24	1797	Verify that the IUT sends a RR/F=1 in response to a REJ/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.
DL85_V25	LAPD/MFO/S85/DL85_V 25	1798	Verify that the IUT sends nothing in response to a REJ/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to

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Test Case Identifier	Test Case Reference	Description
DL85_V26	LAPD/MFO/S85/DL85_V 26	1799 be in Timer Recovery state (8.1). Verify that the IUT sends nothing in response to a REJ/F=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.1).
DL85_V27	LAPD/MFO/S85/DL85_V 27	1800 Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).
DL85_V28	LAPD/MFO/S85/DL85_V 28	1801 Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.
DL85_V29	LAPD/MFO/S85/DL85_V 29	1802 Verify that the IUT sends nothing in response to a RNR/P=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).
DL85_V30	LAPD/MFO/S85/DL85_V 30	1803 Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.5).

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DL85_V31	LAPD/MFO/S85/DL85_V 31	1804 Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.5). Verify that the IUT sends nothing in response to a RNR/F=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).
DL85_V32	LAPD/MFO/S85/DL85_V 32	1805 Verify that the IUT sends a RR/F=1 in response to a I/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL85_V33	LAPD/MFO/S85/DL85_V 33	1806 Verify that the IUT sends a RR/F=0 in response to a I/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.
DL85_V34	LAPD/MFO/S85/DL85_V 34	1807 Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<V_R, N_R=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.
DL85_V35	LAPD/MFO/S85/DL85_V 35	1808 Verify that the IUT sends nothing in response to a I/P=0

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Test Case Identifier	Test Case Reference	Description
DL85_V36	LAPD/MFO/S85/DL85_V 36	1809 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5). Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL85_V37	LAPD/MFO/S85/DL85_V 37	1810 Verify that the IUT sends a RR/F=0 in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.
DL85_V38	LAPD/MFO/S85/DL85_V 38	1811 Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.
DL85_V39	LAPD/MFO/S85/DL85_V 39	1812 Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).

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4 Abstract Test Suite - Part I

LAPD Conformance Testing

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Test Case Identifier	Test Case Reference	Description
DL85_V40	LAPD/MFO/S85/DL85_V 40	1813 Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.
DL85_V41	LAPD/MFO/S85/DL85_V 41	1814 Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.
DL85_V42	LAPD/MFO/S85/DL85_V 42	1815 Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.
DL85_V43	LAPD/MFO/S85/DL85_V 43	1816 Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).
DL85_V44	LAPD/MFO/S85/DL85_V 44	1817 Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.5). The IUT is expected to be in

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LAPD Conformance Testing

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Test Case Identifier	Test Case Reference		Description
#			Awaiting Establishment
#			state (5.1) after
DL85_V45	LAPD/MFO/S85/DL85_V	1818	sending SABME/P=1.
#	45		Verify that the IUT
#			sends a RR/P=1 or
#			retransmit I/P=1 after
#			a timeout T200 (RC<N200,
#			V_A<V_S) in Timer
#			Recovery state (8.5).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.5) after
DL85_V46	LAPD/MFO/S85/DL85_V	1819	sending RR/P=1.
#	46		Verify that the IUT
#			sends a RR/P=1 after a
#			timeout T200 (RC<N200,V
#			_A=V_S) in Timer
#			Recovery state (8.5).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.5) after
DL85_V47	LAPD/MFO/S85/DL85_V	1820	sending RR/P=1.
#	47		Verify that the IUT
#			sends a RNR/P=1 when it
#			sets OWN_BUSY in Timer
#			Recovery state (8.5).
#			The IUT is expected to
#			be in state Timer
#			Recovery state (8.7)
DL85_N01	LAPD/MFO/S85/DL85_N	1821	after sending RNR/P=1.
#	01		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=1 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.5). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL85_N02	LAPD/MFO/S85/DL85_N	1822	sending SABME/P=1.
#	02		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=0 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state

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LAPD Conformance Testing

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Test Case Identifier	Test Case Reference		Description
#			(8.5). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL85_N03	LAPD/MFO/S85/DL85_N	1823	sending SABME/P=1.
#	03		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=1 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.5). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL85_N04	LAPD/MFO/S85/DL85_N	1824	sending SABME/P=1.
#	04		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=0 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.5). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL85_N05	LAPD/MFO/S85/DL85_N	1825	sending SABME/P=1.
#	05		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a REJ/P=1
#			(N_R = V_S+K+1)
#			received in Timer
#			Recovery state (8.5).
#			The IUT is expected to
#			be in Awaiting
#			Establishment state (5.
#			1) after sending
DL85_N06	LAPD/MFO/S85/DL85_N	1826	SABME/P=1.
#	06		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a REJ/P=0
#			(N_R = V_S+K+1)
#			received in Timer
#			Recovery state (8.5).
#			The IUT is expected to
#			be in Awaiting
#			Establishment state (5.

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Test Case Identifier	Test Case Reference	Description
DL85_N07	LAPD/MFO/S85/DL85_N07	1827 1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N08	LAPD/MFO/S85/DL85_N08	1828 Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N09	LAPD/MFO/S85/DL85_N09	1829 Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N10	LAPD/MFO/S85/DL85_N10	1830 Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference	Description
DL85_N11	LAPD/MFO/S85/DL85_N11	1831 Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N12	LAPD/MFO/S85/DL85_N12	1832 Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N13	LAPD/MFO/S85/DL85_N13	1833 Verify that the IUT sends a SABME/P=1 in response to a I/P=1 ($N_S = V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N14	LAPD/MFO/S85/DL85_N14	1834 Verify that the IUT sends a SABME/P=1 in response to a I/P=0 ($N_S = V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL85_N15	LAPD/MFO/S85/DL85_N15	1835	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<V_R, N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N16	LAPD/MFO/S85/DL85_N16	1836	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<V_R, N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N17	LAPD/MFO/S85/DL85_N17	1837	Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N18	LAPD/MFO/S85/DL85_N18	1838	Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N19	LAPD/MFO/S85/DL85_N19	1839	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL85_N19	LAPD/MFO/S85/DL85_N19	1840	sends a SABME/P=1 in response to a UA frame, with excess length, received in Timer Recover state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N20	LAPD/MFO/S85/DL85_N20	1841	Verify that the IUT sends a SABME/P=1 in response to a CM frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N21	LAPD/MFO/S85/DL85_N21	1842	Verify that the IUT sends a SABME/P=1 in response to a PMR frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N22	LAPD/MFO/S85/DL85_N22	1843	Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N23	LAPD/MFO/S85/DL85_N23	1844	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference	Description
DL84_N24	LAPD/MFO/S85/DL83_N 24	1844 response to a RNR frame , with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ frame , with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N25	LAPD/MFO/S85/DL85_N 25	1845 Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N26	LAPD/MFO/S85/DL85_N 26	1846 Verify that the IUT sends a SABME/P=1 in response to a undefined frame received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL85_N27	LAPD/MFO/S85/DL85_N 27	1847 Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not

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Test Case Identifier	Test Case Reference	Description
DL86_V28	LAPD/MFO/S86/DL86_V 28	1848 error received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.
DL86_V29	LAPD/MFO/S86/DL86_V 29	1849 Verify that the IUT does not send additional I Frames in Timer Recovery state (8.6) even if V_S < V_A +K. The IUT is expected to remain in Timer Recovery state (8.6).
DL86_V30	LAPD/MFO/S86/DL86_V 30	1850 Verify that the IUT does not send additional I Frames in Timer Recovery state (8.6) when V_S = V_A +K (window is closed). The IUT is expected to remain in Timer Recovery state (8.6).
DL86_V31	LAPD/MFO/S86/DL86_V 31	1851 Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.
DL86_V32	LAPD/MFO/S86/DL86_V 32	1852 Verify that the IUT sends a UA/F=0 in

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Test Case Identifier	Test Case Reference		Description
#			response to a SABME/P=0 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
#			Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL86_V12	LAPD/MFO/S86/DL86_V12	1853	Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL86_V13	LAPD/MFO/S86/DL86_V13	1854	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_V14	LAPD/MFO/S86/DL86_V14	1855	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_V15	LAPD/MFO/S86/DL86_V15	1856	Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL86_V17	LAPD/MFO/S86/DL86_V17	1857	Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer
#			Recovery state (8.6).
#			The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_V20	LAPD/MFO/S86/DL86_V20	1858	Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 (V_A<N_R<V_S) received in Timer
#			Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL86_V21	LAPD/MFO/S86/DL86_V21	1859	Verify that the IUT does not send a response to a RR/P=0 (V_A<N_R<V_S) received in Timer
#			Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).
DL86_V22	LAPD/MFO/S86/DL86_V22	1860	Verify that the IUT does not send a response to a RR/F=1 (V_A<N_R<V_S) received in Timer
#			Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.2).
DL86_V23	LAPD/MFO/S86/DL86_V23	1861	Verify that the IUT does not send a response to a RR/F=0 (V_A<N_R<V_S) received in Timer
#			Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).

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Test Case Identifier	Test Case Reference		Description
DL86_V24	LAPD/MFO/S86/DL86_V 24	1862	Verify that the IUT sends a RNR/F=1 in response to a REJ/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.
DL86_V25	LAPD/MFO/S86/DL86_V 25	1863	Verify that the IUT does not send a response to a REJ/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).
DL86_V26	LAPD/MFO/S86/DL86_V 26	1864	Verify that the IUT does not send a response to a REJ/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.2).
DL86_V27	LAPD/MFO/S86/DL86_V 27	1865	Verify that the IUT does not send a response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).
DL86_V28	LAPD/MFO/S86/DL86_V 28	1866	Verify that the IUT sends a RNR/F=1 in response to a REJ/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to

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Test Case Identifier	Test Case Reference		Description
DL86_V29	LAPD/MFO/S86/DL86_V 29	1867	Verify that the IUT does not send a response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).
DL86_V30	LAPD/MFO/S86/DL86_V 30	1868	Verify that the IUT does not send a response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.6).
DL86_V31	LAPD/MFO/S86/DL86_V 31	1869	Verify that the IUT does not send a response to a RNR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).
DL86_V32	LAPD/MFO/S86/DL86_V 32	1870	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in TIMER RECOVERY state (8.6) after sending RNR/F=1.
DL86_V33	LAPD/MFO/S86/DL86_V 33	1871	Verify that the IUT does not send a response to an I/P=0 received in Timer Recovery state (8.6).

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Test Case Identifier	Test Case Reference		Description
#			The IUT is expected to be in TIMER RECOVERY state (8.6).
DL86_V34	LAPD/MFO/S86/DL86_V34	1872	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.
DL86_V35	LAPD/MFO/S86/DL86_V35	1873	Verify that the IUT does not send a response to an I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to be in Timer Recovery state (8.6).
DL86_V36	LAPD/MFO/S86/DL86_V36	1874	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.
DL86_V37	LAPD/MFO/S86/DL86_V37	1875	Verify that the IUT does not send a response to an I/P=0 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6).
DL86_V38	LAPD/MFO/S86/DL86_V38	1876	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S<>V_R, V_A<N_R<V_S)

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Test Case Identifier	Test Case Reference		Description
#			received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6) after sending RNR/F=1.
DL86_V39	LAPD/MFO/S86/DL86_V39	1877	Verify that the IUT does not send a response to an I/P=0 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6).
DL86_V40	LAPD/MFO/S86/DL86_V40	1878	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6) after sending RNR/F=1.
DL86_V41	LAPD/MFO/S86/DL86_V41	1879	Verify that the IUT does not send a response to an I/P=0 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6).
DL86_V42	LAPD/MFO/S86/DL86_V42	1880	Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6).
#			The IUT is expected to remain in Timer Recovery state (8.6) after sending RNR/F=1.
DL86_V43	LAPD/MFO/S86/DL86_V43	1881	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
	43		does not send a response to a I/P=0 ($N_S < V_R$, $V_A = N_R < V_S$) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).
DL86_V44	LAPD/MFC/S86/CL86_V 44	1882	Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_V45	LAPD/MFC/S86/CL86_V 45	1883	Verify that the IUT sends a RNR/P=1 or retransmit I/P=1 after a timeout T200 ($RC < N200$, $V_A < V_S$) in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/P=1.
DL86_V46	LAPD/MFC/S86/CL86_V 46	1884	Verify that the IUT sends a RNR/P=1 in response to a timeout T200 ($RC < N200$, $V_A = V_S$) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/P=1.
DL86_V47	LAPD/MFC/S86/CL86_V 47	1885	Verify that the IUT sends a RR/F=0 in response to a CLEAR_OWN_BUSY in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.4).
DL86_V48	LAPD/MFC/S86/CL86_V 48	1886	Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
	49		sends a SABME/P=1 in response to a RR/P=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N02	LAPD/MFC/S86/CL86_N 02	1887	Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N03	LAPD/MFC/S86/CL86_N 03	1888	Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N04	LAPD/MFC/S86/CL86_N 04	1889	Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N05	LAPD/MFC/S86/CL86_N 05	1890	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6).

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Test Case Identifier	Test Case Reference		Description
DL86_N06	LAPD/MFO/S86/DL86_N06	1891	The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N07	LAPD/MFO/S86/DL86_N07	1892	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N08	LAPD/MFO/S86/DL86_N08	1893	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N09	LAPD/MFO/S86/DL86_N09	1894	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to

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Test Case Identifier	Test Case Reference		Description
DL86_N10	LAPD/MFO/S86/DL86_N10	1895	The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N11	LAPD/MFO/S86/DL86_N11	1896	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N12	LAPD/MFO/S86/DL86_N12	1897	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 ($N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N13	LAPD/MFO/S86/DL86_N13	1898	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 ($N_S = V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in

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Test Case Identifier	Test Case Reference		Description
DL86_N14	LAPD/MFO/S86/DL86_N14	1899	Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a I/P=0 ($N_S = V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N15	LAPD/MFO/S86/DL86_N15	1900	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 ($N_S < V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N16	LAPD/MFO/S86/DL86_N16	1901	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 ($N_S < V_R$, $N_R = V_S + K + 1$) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N17	LAPD/MFO/S86/DL86_N17	1902	Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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Test Case Identifier	Test Case Reference		Description
DL86_N18	LAPD/MFO/S86/DL86_N18	1903	Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N19	LAPD/MFO/S86/DL86_N19	1904	Verify that the IUT sends a SABME/P=1 in response to a UA frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N20	LAPD/MFO/S86/DL86_N20	1905	Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL86_N21	LAPD/MFO/S86/DL86_N21	1906	Verify that the IUT sends a SABME/P=1 in response to a FRMR frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.

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$$x_1, \dots, x_n \in [0, 1], \quad (x_1, \dots, x_n) \in \mathcal{C}, \quad \text{and} \quad x_1, \dots, x_n \in [0, 1], \quad (x_1, \dots, x_n) \in \mathcal{C},$$
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Test Case Identifier	Test Case Reference	Description
DL87_V08	LAPD/MFC/S87/DL87_V08	1916 (window is closed). The IUT is expected to remain in Timer Recovery state (8.7). Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.
DL87_V10	LAPD/MFC/S87/DL87_V10	1917 Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.
DL87_V11	LAPD/MFC/S87/DL87_V11	1918 Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.7). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.
DL87_V12	LAPD/MFC/S87/DL87_V12	1919 Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.7). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.
DL87_V13	LAPD/MFC/S87/DL87_V13	1920 Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.7).

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Test Case Identifier	Test Case Reference	Description
DL87_V14	LAPD/MFC/S87/DL87_V14	1921 The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_V15	LAPD/MFC/S87/DL87_V15	1922 Verify that the IUT sends a SABME/P=1 in response to a RRMH/F=1 received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_V16	LAPD/MFC/S87/DL87_V16	1923 Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 (V A<N R<V S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.
DL87_V17	LAPD/MFC/S87/DL87_V17	1924 Verify that the IUT does not send a response to a RR/P=0 (V A<N R<V S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3).
DL87_V18	LAPD/MFC/S87/DL87_V18	1925 Verify that the IUT does not send a response to a RR/P=1 (V

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Test Case Identifier	Test Case Reference		Description
#			A<=N_R<=V_S) received
#			in Timer Recovery state
#			(8.7). The IUT is
#			expected to be in
#			Multiple Frame
#			Established state (7.3)
DL87_V23	LAPD/MFO/S87/DL87_V	1926	. Verify that the IUT
#	23		does not send a
#			response to a RR/F=0 (V
#			A<=N_R<=V_S) received
#			in Timer Recovery state
#			(8.7). The IUT is
#			expected to be in Timer
DL87_V24	LAPD/MFO/S87/DL87_V	1927	Recovery state (8.3). Verify that the IUT
#	24		sends a RNR/F=1 in
#			response to a REJ/P=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.3) after
DL87_V25	LAPD/MFO/S87/DL87_V	1928	sending RNR/F=1. Verify that the IUT
#	25		does not send a
#			response to a REJ/P=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Timer Recovery
DL87_V26	LAPD/MFO/S87/DL87_V	1929	state (8.3). Verify that the IUT
#	26		does not send a
#			response to a REJ/F=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Multiple Frame
#			Established state (7.3)
DL87_V27	LAPD/MFO/S87/DL87_V	1930	. Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
#			does not send a
#			response to a REJ/F=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.3).
DL87_V28	LAPD/MFO/S87/DL87_V	1931	Verify that the IUT
#	28		sends a RNR/F=1 in
#			response to a RNR/P=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer
#			Recovery state (8.7)
DL87_V29	LAPD/MFO/S87/DL87_V	1932	after sending RNR/F=1. Verify that the IUT
#	29		does not send a
#			response to a RNR/P=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer
#			Recovery state (8.7).
DL87_V30	LAPD/MFO/S87/DL87_V	1933	Verify that the IUT
#	30		does not send a
#			response to a RNR/F=1
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Multiple Frame
#			Established state (7.7)
#			.
DL87_V31	LAPD/MFO/S87/DL87_V	1934	Verify that the IUT
#	31		does not send a
#			response to a RNR/F=0
#			(V_A<=N_R<=V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer

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Test Case Identifier	Test Case Reference		Description
DL87_V32	LAPD/MFO/S87/DL87_V 32	1935	Recovery state (8.7). Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/F=1.
DL87_V33	LAPD/MFO/S87/DL87_V 33	1936	Verify that the IUT does not send a response to a I/P=0 received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7).
DL87_V34	LAPD/MFO/S87/DL87_V 34	1937	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.
DL87_V35	LAPD/MFO/S87/DL87_V 35	1938	Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7).
DL87_V36	LAPD/MFO/S87/DL87_V 36	1939	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery

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Test Case Identifier	Test Case Reference		Description
DL87_V37	LAPD/MFO/S87/DL87_V 37	1940	state (8.7) after sending RNR/F=1. Verify that the IUT does not send a response to a I/P=0 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7).
DL87_V38	LAPD/MFO/S87/DL87_V 38	1941	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.
DL87_V39	LAPD/MFO/S87/DL87_V 39	1942	Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7).
DL87_V40	LAPD/MFO/S87/DL87_V 40	1943	Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A=V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/F=1.
DL87_V41	LAPD/MFO/S87/DL87_V 41	1944	Verify that the IUT does not send a response to a I/P=0 (N_S=V_R, V_A=V_S) received in Timer

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Test Case Identifier	Test Case Reference		Description
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer
DL87_V42	LAPD/MFO/S87/DL87_V	1945	Recovery state (8.7).
#	42		Verify that the IUT
#			sends a RNR/F=1 in
#			response to a I/P=1
#			(N_S<>V_R, V_A=N_R<V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.7) after
DL87_V43	LAPD/MFO/S87/DL87_V	1946	sending RNR/F=1.
#	43		Verify that the IUT
#			does not send a
#			response to a I/P=0
#			(N_S<>V_R, V_A=N_R<V_S)
#			received in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer
DL87_V44	LAPD/MFO/S87/DL87_V	1947	Recovery state (8.7).
#	44		Verify that the IUT
#			sends a SABME/P=1 after
#			timeout of T200 N200
#			times in Timer Recovery
#			state (8.7). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL87_V45	LAPD/MFO/S87/DL87_V	1948	sending SABME/P=1.
#	45		Verify that the IUT
#			sends a RNR/P=1 or
#			retransmit I/P=1 after
#			a timeout T200 (RC<N200
#			,V_A<V_S) in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			be in Timer Recovery
#			state (8.7) after
#			sending RNR/P=1.
DL87_V46	LAPD/MFO/S87/DL87_V	1949	Verify that the IUT
#	46		sends a RNR/P=1 in
#			response to a timeout

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Test Case Identifier	Test Case Reference		Description
#			T200 (RC<N200,V_A=V_S)
#			receives in Timer
#			Recovery state (8.7).
#			The IUT is expected to
#			remain in Timer
DL87_V48	LAPD/MFO/S87/DL87_V	1950	Recovery state (8.7)
#	48		after sending RNR/P=1.
#			Verify that the IUT
#			sends a RR/F=0 in
#			response to a CLEAR_OWN
#			BUSY in Timer Recovery
#			state (8.7). The IUT is
#			expected to be in Timer
DL87_N01	LAPD/MFO/S87/DL87_N	1951	Recovery state (8.5).
#	01		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=1 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.7). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL87_N02	LAPD/MFO/S87/DL87_N	1952	sending SABME/P=1.
#	02		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/P=0 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.7). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL87_N03	LAPD/MFO/S87/DL87_N	1953	sending SABME/P=1.
#	03		Verify that the IUT
#			sends a SABME/P=1 in
#			response to a RR/F=1 (N
#			_R = V_S+K+1) received
#			in Timer Recovery state
#			(8.7). The IUT is
#			expected to be in
#			Awaiting Establishment
#			state (5.1) after
DL87_N04	LAPD/MFO/S87/DL87_N	1954	sending SABME/P=1.
#			Verify that the IUT

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Test Case Identifier	Test Case Reference		Description
DL87_N05	LAPD/MFO/S87/DL87_N05	1955	sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N06	LAPD/MFO/S87/DL87_N06	1956	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N07	LAPD/MFO/S87/DL87_N07	1957	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N08	LAPD/MFO/S87/DL87_N08	1958	Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0

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Test Case Identifier	Test Case Reference		Description
DL87_N09	LAPD/MFO/S87/DL87_N09	1959	(N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N10	LAPD/MFO/S87/DL87_N10	1960	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N11	LAPD/MFO/S87/DL87_N11	1961	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N12	LAPD/MFO/S87/DL87_N12	1962	Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R = V_S+K+1)

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Test Case Identifier	Test Case Reference		Description
DL87_N13	LAPD/MFO/S87/DL87_N13	1963	received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N14	LAPD/MFO/S87/DL87_N14	1964	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S=V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N15	LAPD/MFO/S87/DL87_N15	1965	Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<>V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N16	LAPD/MFO/S87/DL87_N16	1966	Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<>V_R, N_R = V_S+K+1) received in

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Test Case Identifier	Test Case Reference		Description
DL87_N17	LAPD/MFO/S87/DL87_N17	1967	Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1, with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N18	LAPD/MFO/S87/DL87_N18	1968	Verify that the IUT sends a SABME/P=1 in response to a DISC/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N19	LAPD/MFO/S87/DL87_N19	1969	Verify that the IUT sends a SABME/P=1 in response to a UA/F=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N20	LAPD/MFO/S87/DL87_N20	1970	Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 with excess length, received in Timer Recovery state (8.7).

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Test Case Identifier	Test Case Reference		Description
DL87_N21	LAPD/MFO/S87/DL87_N 21	1971	The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N22	LAPD/MFO/S87/DL87_N 22	1972	Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N23	LAPD/MFO/S87/DL87_N 23	1973	Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N24	LAPD/MFO/S87/DL87_N 24	1974	Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to

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Test Case Identifier	Test Case Reference		Description
DL87_N25	LAPD/MFO/S87/DL87_N 25	1975	be in Awaiting Establishment state (5.1) after sending SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N26	LAPD/MFO/S87/DL87_N 26	1976	Verify that the IUT sends a SABME/P=1 in response to an undefined command frame received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N27	LAPD/MFO/S87/DL87_N 27	1977	Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not permitted) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
DL87_N28	LAPD/MFO/S87/DL87_N 28	1978	Verify that the IUT ignores an I(P=0) with no information field received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).

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Test Case Identifier	Test Case Reference		Description
DS10_N03	LAPD/SYSTEM/DS10_N03	1979	Verify that the IUT ignores a FRMR received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).
DS10_N04	LAPD/SYSTEM/DS10_N04	1980	Verify that the IUT ignores an UI frame too long received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).
DS10_N05	LAPD/SYSTEM/DS10_N05	1981	Verify that the IUT ignores an UI with bad FCS received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).
DS10_N08	LAPD/SYSTEM/DS10_N08	1982	Verify that the IUT does not respond to an ID_Check Request with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0).
DS10_N09	LAPD/SYSTEM/DS10_N09	1983	Verify that the IUT does not respond to an ID_Check Request with an invalid Octet 2 EA bit (=1). The IUT is expected to remain in TEI Unassigned state (1.0).
DS10_N10	LAPD/SYSTEM/DS10_N10	1984	Verify that the IUT does not respond to an ID_Assigned with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0).
DS10_N11	LAPD/SYSTEM/DS10_N11	1985	Verify that the IUT does not respond to an

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Test Case Identifier	Test Case Reference		Description
DS10_N12	LAPD/SYSTEM/DS10_N12	1986	ID_Assigned with an invalid Octet 2 EA bit (=1). The IUT is expected to remain in TEI Unassigned state (1.0).
DS10_N13	LAPD/SYSTEM/DS10_N13	1987	Verify that the IUT does not respond to an ID_Denied with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0).
DS20_N01	LAPD/SYSTEM/DS20_N01	1988	Verify that the IUT does not respond to an I frame with no information field in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N02	LAPD/SYSTEM/DS20_N02	1989	Verify that the IUT does not respond to an I frame with a layer 3 RELEASE in the information field in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N03	LAPD/SYSTEM/DS20_N03	1990	Verify that the IUT does not respond to an FRMR frame in Assign Awaiting TEI state (2.0). The IUT is

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Test Case Identifier	Test Case Reference		Description
DS20_N04	LAPD/SYSTEM/DS20_N04	1991	expected to remain in Assign Awaiting TEI state (2.0). Verify that the IUT does not respond to a UI frame that is too long in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N05	LAPD/SYSTEM/DS20_N05	1992	Verify that the IUT does not respond to a UI frame with an FCS error in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N08	LAPD/SYSTEM/DS20_N08	1993	Verify that the IUT does not respond to an ID Check Request with an invalid CR in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N09	LAPD/SYSTEM/DS20_N09	1994	Verify that the IUT does not respond to an ID Check Request with an invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N11	LAPD/SYSTEM/DS20_N11	1995	Verify that the IUT does not respond to an ID Assigned with an invalid CR in Assign Awaiting TEI state (2.0).

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Test Case Identifier	Test Case Reference		Description
DS20_N11	LAPD/SYSTEM/DS20_N11	1996	(2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Verify that the IUT does not respond to an ID Assigned with an invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N12	LAPD/SYSTEM/DS20_N12	1997	Verify that the IUT does not respond to an ID Denied with an invalid CR in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N13	LAPD/SYSTEM/DS20_N13	1998	Verify that the IUT does not respond to an ID Denied with invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS20_N14	LAPD/SYSTEM/DS20_N14	1999	Verify that the IUT does not respond to a UI frame (with no information) received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).
DS40_N01	LAPD/SYSTEM/DS40_N01	2000	Verify that the IUT does not respond to a SABME (with a TEI value not assigned to the IUT) received in TEI

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Test Case Identifier	Test Case Reference		Description
DS40_N06	LAPD/SYSTEM/DS40_N06	2001	Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Verify that the IUT does not respond to an RR (with a TEI value not assigned to the IUT) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N07	LAPD/SYSTEM/DS40_N07	2002	Verify that the IUT does not respond to an I with information, (with a TEI value not assigned to the IUT) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N08	LAPD/SYSTEM/DS40_N08	2003	Verify that the IUT does not respond to an ID-Check-Request with bad CR received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N09	LAPD/SYSTEM/DS40_N09	2004	Verify that the IUT does not respond to an ID-Check-Request with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N10	LAPD/SYSTEM/DS40_N10	2005	Verify that the IUT does not respond to an ID-Assigned with bad CR received in TEI

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Test Case Identifier	Test Case Reference		Description
DS40_N11	LAPD/SYSTEM/DS40_N11	2006	Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Verify that the IUT does not respond to an ID-Assigned with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N12	LAPD/SYSTEM/DS40_N12	2007	Verify that the IUT does not respond to an ID-Denied with bad CR received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N13	LAPD/SYSTEM/DS40_N13	2008	Verify that the IUT does not respond to an ID-Denied with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N14	LAPD/SYSTEM/DS40_N14	2009	Verify that the IUT does not respond to a UI frame, with no information, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_N15	LAPD/SYSTEM/DS40_N15	2010	Verify that the IUT does not respond to a frame with an FCS error received in TEI

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Test Case Ident. File	Test Case Reference		Description
DS50_N15	LAPD/SYSTEM/DS50_N15	2011	Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Verify that the IUT does not respond to a frame with an FCS error received in Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).
DS50_N15	LAPD/SYSTEM/DS50_N15	2012	Verify that the IUT does not respond to an ID_Remove (AI=different TEI) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).
DS51_N16	LAPD/SYSTEM/DS51_V16	2013	Verify that the IUT sends the I frame queued prior to transmission of a SABME/P=1 and after receiving a UA/F=1 in the Awaiting Establishment state (5.1). The IUT is expected to enter Multiple Frame Established state (7.0).
DS60_N15	LAPD/SYSTEM/DS60_N15	2014	Verify that the IUT does not send a response to a frame with an FCS error received in Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).
DS60_N15	LAPD/SYSTEM/DS60_N15	2015	Verify that the IUT does not respond to an

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Test Case Ident. File	Test Case Reference		Description
DS70_V01	LAPD/SYSTEM/DS70_V01	2016	ID_Remove (AI=different TEI) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Verify that IUT correctly updates its N(R) counter using modulo 128 addition. The IUT is expected to respond to consecutively numbered I-frames with an RR or RNR with F=1 and N(R) <= 127.
DS70_V01	LAPD/SYSTEM/DS70_V01	2019	Verify that the IUT ignores an I frame that is not properly bounded by two flags received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
DS70_V01	LAPD/SYSTEM/DS70_V01	2020	Verify that the IUT ignores a SABME that contains fewer than 5 octets between flags received in Multiple Frame Established state (7.0). IUT is expected to remain in Multiple Frame Established state (7.0).
DS70_V01	LAPD/SYSTEM/DS70_V01	2021	Verify that the IUT ignores a SABME that contains a frame check sequence (FCS) error received in Multiple Frame Established state (7.0). IUT is expected to remain in Multiple Frame Established state

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Test Case Identifier	Test Case Reference		Description
# DS70_N05 # # # # # # #	LAPD/SYSTEM/DS70_N05	2022	(7.0). Verify that the IUT ignores a SABME with a single octet address field received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
# DS70_N06 # # # # # # #	LAPD/SYSTEM/DS70_N06	2023	Verify that the IUT ignores a SABME with a service access point identifier (SAPI) not supported by the receiver, received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).
# DS70_N07 # # # # # # #	LAPD/SYSTEM/DS70_N07	2024	Verify that the IUT ignores a frame with seven or more contiguous one bits received in Multiple Frame Established state (7.0). This shall be considered a frame abort condition. The IUT is expected to remain in Multiple Frame Established state (7.0).
# DS70_N08 # # # # # # #	LAPD/SYSTEM/DS70_N08	2025	Verify that the IUT ignores a SABME with a TEI value not assigned to the IUT received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).

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Test Case Identifier	Test Case Reference		Description
# DS74_N15 # # # # # # #	LAPD/SYSTEM/DS74_N15	2026	(7.0). Verify that the IUT does not respond to a frame with an FCS error received in Multiple Frame Established state (7.4). The IUT is expected to remain in the Multiple Frame Established state (7.4).
# DS74_N17 # # # # # # #	LAPD/SYSTEM/DS74_N17	2027	Verify that the IUT does not respond to an ID_Remove (with A!=different TEI) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state (7.4).
# DS74_V18 # # # # # # #	LAPD/SYSTEM/DS74_V18	2028	Verify that the IUT retransmits an I frame in response to a RR/F=1 response indicating that the peer busy condition has ended, in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established state (7.0).
# DS80_N15 # # # # # # #	LAPD/SYSTEM/DS80_N15	2029	Verify that the IUT does not respond to a frame with an FCS error received in Timer Recovery state (8.0). The IUT is expected to remain in the Timer Recovery state (8.0).
# DS84_N15 # # # # # # #	LAPD/SYSTEM/DS84_N15	2030	Verify that the IUT does not respond to a frame with an FCS error received in Timer

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Test Case Identifier	Test Case Reference		Description
DS84_N1	LAPD/SYSTEM/DS84_N1	2031	Recovery state (8.4). The IUT is expected to remain in the Timer Recovery state (8.4). Verify that the IUT does not respond to an ID_Remove (Aid-different TEI) received in Timer Recovery state (8.4). The IUT is expected to remain in state 8.4.
DS40_1_1	LAPD/SYSTEM/DS40_1_1	2032	Tests the normal initialisation of multiple-frame operation. Verify that the IUT 1) is able to initiate link establishment in TEI Assigned state (4.0), and 2) is able to send an I frame after entering Multiple Frame Established state (7.0).
DS40_1_2	LAPD/SYSTEM/DS40_1_2	2033	Tests the IUT's response to the loss of a UA frame. Verify that the IUT retransmits a SABME/P=1 after receiving no response to a first SABME/P=1 sent in TEI Assigned state (4.0).
DS40_1_3	LAPD/SYSTEM/DS40_1_3	2034	Verify that the IUT does not respond after receiving a DM/F=1 in response to a first SABME/P=1 sent in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).
DS40_1_4	LAPD/SYSTEM/DS40_1_4	2035	Tests the IUT's response to the inability of the

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Test Case Identifier	Test Case Reference		Description
DS70_1_5	LAPD/SYSTEM/DS70_1_5	2036	network to respond to a SABME/P=1 received in TEI Assigned state (4.0). Verify that the IUT retransmits a SABME/P=1 after receiving no response. The IUT is expected to remain in TEI Assigned state.
DS40_2_1	LAPD/SYSTEM/DS40_2_1	2037	Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after sending the UA/F=1. Tests unnumbered frame transfer on broadcast data link. Verify that the IUT is able to send an I frame after entering Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established after receiving RR/F=0.
DS70_2_2	LAPD/SYSTEM/DS70_2_2	2038	Verify that the IUT cycles through 128 sequence numbers during I frame transfer in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.
DS70_2_3	LAPD/SYSTEM/DS70_2_3	2039	Verify that the IUT sends an RR/F=0 in response to I/P=0 sent as a valid response to

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Test Case Identifier	Test Case Reference	Description
DS80_2_4	LAPD/SYSTEM/DS80_2_4	2040
DS70_3_1	LAPD/SYSTEM/DS70_3_1	2042
DS70_4_1	LAPD/SYSTEM/DS70_4_1	2043
DS70_4_2a	LAPD/SYSTEM/DS70_4_2a	2044

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Test Case Identifier	Test Case Reference	Description
DS70_4_2b	LAPD/SYSTEM/DS70_4_2b	2046
DS70_4_3	LAPD/SYSTEM/DS70_4_3	2048
DS70_4_4	LAPD/SYSTEM/DS70_4_4	2050
DS74_5_1	LAPD/SYSTEM/DS74_5_1	2051

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Test Case Identifier	Test Case Reference		Description
DS70_5_2	LAPD/SYSTEM/DS70_5_2	2052	I/P=0. Verify that the IUT sends an RR/F=1 in response to a RR/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.
DS60_6_1	LAPD/SYSTEM/DS60_6_1	2053	Verify that the IUT can 1) handle the collision with a SABME/P=1, and 2) retransmit the DISC/P=1 when T200 expires, in Awaiting Release state (6.0). The IUT is expected to enter TEI Assigned state after receiving the UA/F=1.
DS10_7_1	LAPD/SYSTEM/DS10_7_1	2054	Verify that the IUT 1) enters TEI Assigned state after receiving an Id Assigned frame in response to an Id Request, and 2) sends an Id Check Response in response to an Id Check Request. The IUT is expected to enter TEI Assigned state.
DS10_7_2	LAPD/SYSTEM/DS10_7_2	2055	Verify that the IUT retransmits an ID Request in response to an ID Denied received in Awaiting TEI state. The IUT is expected to enter TEI Assigned state after receiving the ID Assigned.
DS10_7_3	LAPD/SYSTEM/DS10_7_3	2056	Verify that the IUT sends an ID Check response in response to

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Test Case Identifier	Test Case Reference		Description
DS10_7_4	LAPD/SYSTEM/DS10_7_4	2057	an ID Check Request (127) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state after sending the ID Check Response.
DS40_8_1_1	LAPD/SYSTEM/DS40_8_1_1	2058	Verify that the IUT transmits at least N202 ID_Requests (different R1*) to T202 Timeout Conditions in TEI Unassigned state (1.0). Verify that the IUT does not respond to a SABME/P=1 with an invalid TEI value received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state.
DS40_8_2_1	LAPD/SYSTEM/DS40_8_2_1	2059	Verify that the IUT sends a SABME in response to an I/P=1 with an invalid C/R value received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DS40_8_2_2	LAPD/SYSTEM/DS40_8_2_2	2060	Verify that the IUT does not respond to a SABME/P=1 with an invalid CR value received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state.
DS40_8_3	LAPD/SYSTEM/DS40_8_3	2061	Verify that the IUT sends a SABME/P=1 in

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Test Case Identifier	Test Case Reference	Description
#		response to a modulo 8
#		RR/P=1 received in
#		Multiple Frame
#		Established modulo 128
#		operation state (7.0).
#		The IUT is expected to
#		enter Awaiting
#		Establishment state
#		after sending
#		SABME/P=1.
DS70_8_4_1	LAPD/SYSTEM/DS70_8_4_1	2062 Verify that the IUT
#		sends a REJ/F=0 in
#		response to an I/P=0
#		with N(S)<V(R)
#		received in Multiple
#		Frame Established state
#		(7.0). The IUT is
#		expected to enter
#		Multiple Frame
#		Established Reject
#		Recovery state after
#		sending REJ/F=0.
DS70_8_4_2	LAPD/SYSTEM/DS70_8_4_2	2063 Verify that the IUT
#		retransmits an I/P=0
#		after receiving a
#		REJ/F=0 in Multiple
#		Frame Established state
#		(7.0). The IUT is
#		expected to enter
#		Multiple Frame
#		Established state after
#		retransmitting I/P=0
DS70_8_4_3	LAPD/SYSTEM/DS70_8_4_3	2065 Verify that the IUT
#		retransmits an I/P=0
#		after receiving a
#		REJ/F=1 in Timer
#		Recovery state (8.0).
#		The IUT is expected to
#		enter Multiple Frame
#		Established state after
#		retransmitting I/P=0
DS70_8_5_1a	LAPD/SYSTEM/DS70_8_5_1a	2067 Verify that the IUT
#		sends a SABME/P=1 in
#		response to an RR/P=0,
#		with an N(R) error,

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Test Case Identifier	Test Case Reference	Description
#		received in Multiple
#		Frame Established state
#		(7.0). The IUT is
#		expected to enter
#		Multiple Frame
#		Established state after
#		sending SABME/P=1 and
#		receiving the UA/F=1.
DS70_8_5_1b	LAPD/SYSTEM/DS70_8_5_1b	2068 Verify that the IUT
#		sends a SABME/P=1 in
#		response to an RR/F=1,
#		with an N(R) error,
#		received in Multiple
#		Frame Established state
#		(7.0). The IUT is
#		expected to enter
#		Multiple Frame
#		Established state after
#		sending SABME/P=1 and
#		receiving the UA/F=1.
DS70_8_5_1c	LAPD/SYSTEM/DS70_8_5_1c	2069 Verify that the IUT
#		sends a SABME/P=1 in
#		response to an RR/F=0,
#		with an N(R) error,
#		received in Multiple
#		Frame Established state
#		(7.0). The IUT is
#		expected to enter
#		Multiple Frame
#		Established state after
#		sending SABME/P=1 and
#		receiving the UA/F=1.
DS40_8_6_1	LAPD/SYSTEM/DS40_8_6_1	2070 Verify that the IUT
#		sends a DM/F=1 in
#		response to a DISC/P=1
#		received in TEI
#		Assigned state (4.0).
#		The IUT is expected to
#		be in TEI Assigned
#		state (4.0) after
#		sending DM/F=1.
DS40_8_6_2	LAPD/SYSTEM/DS40_8_6_2	2071 Verify that the IUT
#		does not respond to an
#		I/P=0, RR/P=1 or
#		RNR/P=1 received in TEI

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Test Case Identifier	Test Case Reference	Page	Description
DS10_8_1	LAPD/SYSTEM/DS10_8_1	2072	Assigned state (4.0). The IUT is expected to remain in TEI Assigned state. Verify that the IUT does not respond to an I/P=0, RR/P=1, UI/P=0, DISC/P=1 or SABME/P=1 received in TEI
DS70_8_1a	LAPD/SYSTEM/DS70_8_1a	2073	Unassigned state (1.0). The IUT is expected to remain in TEI Unassigned state. Verify that the IUT sends a SABME/P=1 in response to a 3 Octet undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DS70_8_1b	LAPD/SYSTEM/DS70_8_1b	2074	Verify that the IUT sends a SABME/P=1 in response to a 4 Octet undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DS70_8_1c	LAPD/SYSTEM/DS70_8_1c	2075	Verify that the IUT sends a SABME/P=1 in response to a 6 Octet undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending

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Test Case Identifier	Test Case Reference	Page	Description
DS70_8_2_2	LAPD/SYSTEM/DS70_8_2_2	2076	SABME/P=1. Verify that the IUT sends a SABME/P=1 in response to an RR of length 1 received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DS70_8_8_4	LAPD/SYSTEM/DS70_8_8_4	2077	Verify that the IUT sends a SABME/P=1 after an N201 error occurs in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.
DS70_9_1	LAPD/SYSTEM/DS70_9_1	2078	Verify that the IUT's T200 between retransmission of frames is within an acceptable tolerance of its value.
DS70_9_2	LAPD/SYSTEM/DS70_9_2	2079	Verify that the IUT implements N200, the maximum number of retransmissions of a frame. The IUT is expected to enter Awaiting Establishment state after N200 retransmissions of RR/P=1.
DL_MFOINIT	LAPD/SYSTEM/DL_MFOINIT	2080	Procedure to initialize the IUT to either TEI assigned State (4.0) or Multiple Frame

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Test Step Identifier	Test Step Reference		Description
DL4_INIT	LAPD/LIBRARY/DL4_INIT	2081	Established state (7.0) depending on the answer to a PIXIT question for the preferred 'idle state'. This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5). Procedure to initialize the IUT to TEI Assigned State (4.0). This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5) to place the IUT in the selected 'idle state'.
DL7_INIT	LAPD/LIBRARY/DL7_INIT	2083	Procedure to initialize the IUT to Multiple Frame Established State (7.0). This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5) to place the IUT in the selected 'idle state'.
ASSIGN_AI	LAPD/LIBRARY/ASSIGN_AI	2084	Procedure to assign two TEI numbers (>= 64 and <= 126) not currently in use and save the values in the test suite variables Ai_No and Ai_Num.
ASSIGN_TEI	LAPD/LIBRARY/ASSIGN_TEI	2085	Procedure to assign a TEI number (>= 64 and <= 126) not currently in use and save the value in the test suite variable TEI_No.

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Test Step Identifier	Test Step Reference		Description
DL70_WC_SETUP	LAPD/LIBRARY/DL70_WC_SETUP	2085	Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal - with the Window closed.
DL71_WC_SETUP	LAPD/LIBRARY/DL71_WC_SETUP	2086	Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with the Window closed.
DL72_WC_SETUP	LAPD/LIBRARY/DL72_WC_SETUP	2086	Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with the Window closed.
DL73_WC_SETUP	LAPD/LIBRARY/DL73_WC_SETUP	2087	Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reject Recovery and Own Busy - with the Window closed.
DL74_WC_SETUP	LAPD/LIBRARY/DL74_WC_SETUP	2087	Special procedure used to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with the Window closed.
DL75_WC_SETUP	LAPD/LIBRARY/DL75_WC_SETUP	2088	Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery - with the Window closed.
DL76_WC_SETUP	LAPD/LIBRARY/DL76_WC_SETUP	2088	Special procedure used

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Test Step Identifier	Test Step Reference		Description
DL77_WC_SETUP	LAPD/LIBRARY/DL77_WC_SETUP	2089	to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with the Window closed. Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy - with the Window closed.
DL70_1I_SETUP	LAPD/LIBRARY/DL70_1I_SETUP	2089	Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal - with one frame sent by IUT.
DL71_1I_SETUP	LAPD/LIBRARY/DL71_1I_SETUP	2090	Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with one I frame sent by IUT.
DL72_1I_SETUP	LAPD/LIBRARY/DL72_1I_SETUP	2090	Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with one I frame sent by IUT.
DL73_1I_SETUP	LAPD/LIBRARY/DL73_1I_SETUP	2091	Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reject Recovery and Own Busy - with one I frame sent by IUT.
DL74_1I_SETUP	LAPD/LIBRARY/DL74_1I_SETUP	2091	Special procedure used

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Test Step Identifier	Test Step Reference		Description
DL75_1I_SETUP	LAPD/LIBRARY/DL75_1I_SETUP	2092	to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with one I frame sent by IUT. Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery - with one I frame sent by IUT.
DL76_1I_SETUP	LAPD/LIBRARY/DL76_1I_SETUP	2092	Special procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with one I frame sent by IUT.
DL77_1I_SETUP	LAPD/LIBRARY/DL77_1I_SETUP	2093	Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy - with one I frame sent by IUT.
DL70_2I_SETUP	LAPD/LIBRARY/DL70_2I_SETUP	2093	Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal - with two I frames sent by IUT.
DL71_2I_SETUP	LAPD/LIBRARY/DL71_2I_SETUP	2094	Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with two I frames

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Test Step Identifier	Test Step Reference		Description
# DL72_2I_SETUP # # # # # DL73_2I_SETUP # # # # # DL74_2I_SETUP # # # # # DL75_2I_SETUP # # # # # DL76_2I_SETUP # # # # # DL77_2I_SETUP # # #	LAPD/LIBRARY/DL72_2 I_SETUP LAPD/LIBRARY/DL73_2 I_SETUP LAPD/LIBRARY/DL74_2 I_SETUP LAPD/LIBRARY/DL75_2 I_SETUP LAPD/LIBRARY/DL76_2 I_SETUP LAPD/LIBRARY/DL77_2 I_SETUP 	2094 2095 2095 2096 2096 2096 2097	sent by IUT. Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with two I frames sent by IUT. Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reje ct Recovery and Own Busy - with two I frames sent by IUT. Special procedure used to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with two I frames sent by IUT. Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery with two I frames sent by IUT. Special procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with two I frames sent by IUT. Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer

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Test Step Identifier	Test Step Reference		Description
# # # DL80_WC_SETUP # # # # # DL81_WC_SETUP # # # # # DL82_WC_SETUP # # # # # DL83_WC_SETUP # # # # # DL84_WC_SETUP # # # # # DL85_WC_SETUP # # # # # DL86_WC_SETUP # # #	LAPD/LIBRARY/DL80_W C_SETUP LAPD/LIBRARY/DL81_W C_SETUP LAPD/LIBRARY/DL82_W C_SETUP LAPD/LIBRARY/DL83_W C_SETUP LAPD/LIBRARY/DL84_W C_SETUP LAPD/LIBRARY/DL85_W C_SETUP LAPD/LIBRARY/DL86_W C_SETUP 	2097 2098 2098 2099 2099 2100 2100	Receiver busy/Reject Recovery and Own Busy - with two I frames sent by IUT. Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with the Window closed. Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with the Window closed. Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with the Window closed. Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with the Window closed. Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with the Window closed. Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with the Window closed. Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with

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Test Step Identifier	Test Step Reference		Description
DL87_WO_SETUP	LAPD/LIBRARY/DL87_WO_SETUP	2101	the Window closed. Special procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver Busy/Reject Recovery and Own Busy - with the Window closed.
DL80_I1_SETUP	LAPD/LIBRARY/DL80_I1_SETUP	2101	Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with one frame sent by IUT.
DL81_I1_SETUP	LAPD/LIBRARY/DL81_I1_SETUP	2102	Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with one frame sent by IUT.
DL82_I1_SETUP	LAPD/LIBRARY/DL82_I1_SETUP	2102	Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with one frame sent by IUT.
DL83_I1_SETUP	LAPD/LIBRARY/DL83_I1_SETUP	2103	Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with one frame sent by IUT.
DL84_I1_SETUP	LAPD/LIBRARY/DL84_I1_SETUP	2103	Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with one frame sent by IUT.
DL85_I1_SETUP	LAPD/LIBRARY/DL85_I1_SETUP	2104	Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with one frame sent by

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Test Step Identifier	Test Step Reference		Description
DL86_I1_SETUP	LAPD/LIBRARY/DL86_I1_SETUP	2105	IUT. Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with one frame sent by IUT.
DL87_I1_SETUP	LAPD/LIBRARY/DL87_I1_SETUP	2105	Special procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver Busy/Reject Recovery and Own Busy - with one frame sent by IUT.
DL80_I2_SETUP	LAPD/LIBRARY/DL80_I2_SETUP	2106	Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with two frames sent by the IUT.
DL81_I2_SETUP	LAPD/LIBRARY/DL81_I2_SETUP	2106	Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with two frames sent by the IUT.
DL82_I2_SETUP	LAPD/LIBRARY/DL82_I2_SETUP	2107	Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with two frames sent by the IUT.
DL83_I2_SETUP	LAPD/LIBRARY/DL83_I2_SETUP	2107	Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with two frames sent by the IUT.
DL84_I2_SETUP	LAPD/LIBRARY/DL84_I2_SETUP	2107	Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with two frames sent by the IUT.

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Test Step Identifier	Test Step Reference		Description
DL85_2I_SETUP # # # # #	LAPD/LIBRARY/DL85_2 I_SETUP	2108	Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with two frames sent by the IUT.
DL86_2I_SETUP # # # # #	LAPD/LIBRARY/DL86_2 I_SETUP	2108	Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with two frames sent by the IUT.
DL87_2I_SETUP # # # # #	LAPD/LIBRARY/DL87_2 I_SETUP	2109	Special procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver busy/Reject Recovery and Own Busy - with two frames sent by the IUT.
REQ_K1_IFRAME # # # # #	LAPD/LIBRARY/REQ_K1 _IFRAME	2109	Special procedure used to request K I frames from the IUT and receive the first K I frames without acknowledging any.
REQ_1_IFRAME # # # # #	LAPD/LIBRARY/REQ_1_ IFRAME	2110	Special procedure used to request that the IUT send 1 I frame and leave the I frame unacknowledged.
REQ_2_IFRAME # # # # #	LAPD/LIBRARY/REQ_2_ IFRAME	2111	Special procedure used to request that the IUT send 2 I frames and leave them unacknowledged.
SET_TIMER_RLC # # # # #	LAPD/LIBRARY/SET TI MER_REC	2112	Special procedure used to place the IUT in Timer Recovery state.
SET_TIMER_RLC_OBSY # # # # #	LAPD/LIBRARY/SET TI MER_REC_OBSY	2112	Special procedure used to place the IUT in Timer Recovery state when it has previously been placed in own busy

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Test Step Identifier	Test Step Reference		Description
SET_PEER_BSY (ACKNO: #INTEGER) # # #	LAPD/LIBRARY/SET PE ER_BSY	2113	state. Special procedure used to place the IUT in Peer Receiver Busy condition.
SET_REJ_REC (ACKNO: #INTEGER) # # #	LAPD/LIBRARY/SET RE J_REC	2114	Special procedure used to place the IUT in Reject Recovery state.
SET_OWN_BSY # # #	LAPD/LIBRARY/SET OW N_BSY	2115	Procedure used to place the IUT in the Own Busy condition.
DL10_PREAMBLE # # #	LAPD/PREAMBLE/DL10_ PREAMBLE	2116	Procedure to bring the IUT into TEI Unassigned state (1.0).
DL10S_PREAMBLE # # #	LAPD/PREAMBLE/DL10S _PREAMBLE	2116	Procedure used to place the IUT into TEI Unassigned state (1.0).
DL20_PREAMBLE # # #	LAPD/PREAMBLE/DL20_ PREAMBLE	2117	Procedure used to place the IUT into Assign Awaiting TEI state (2.0).
DL40_PREAMBLE # # #	LAPD/PREAMBLE/DL40_ PREAMBLE	2118	Preamble to bring IUT into TEI Assigned state (state 4.0)
DL50_PREAMBLE # # #	LAPD/PREAMBLE/DL50_ PREAMBLE	2119	Procedure used to place the IUT in test state 5.0 - Awaiting Establishment/Establish
DL51_PREAMBLE # # #	LAPD/PREAMBLE/DL51_ PREAMBLE	2120	Procedure to use place the IUT in test state 5.1 - Awaiting Establishment/Re-establish.
DL60_PREAMBLE # # #	LAPD/PREAMBLE/DL60_ PREAMBLE	2121	Procedure used to place the IUT in test state 6 - Awaiting Release.
DL70_PREAMBLE # # #	LAPD/PREAMBLE/DL70_ PREAMBLE	2122	Procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal.
DL71_PREAMBLE # # #	LAPD/PREAMBLE/DL71_ PREAMBLE	2123	Procedure used to place the IUT in test state 7.1 - Multiple Frame

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Test Step Identifier	Test Step Reference		Description
DL72_PREAMBLE	LAPD/PREAMBLE/DL72_PREAMBLE	2124	Established/Normal/Reject Recovery. Procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy.
DL73_PREAMBLE	LAPD/PREAMBLE/DL73_PREAMBLE	2125	Procedure used to place the IUT in test state 7.3 Multiple Frame Established/Normal/Reject Recovery and Own Busy.
DL74_PREAMBLE	LAPD/PREAMBLE/DL74_PREAMBLE	2126	Procedure used to place the IUT in the test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal.
DL75_PREAMBLE	LAPD/PREAMBLE/DL75_PREAMBLE	2127	Procedure used to place the IUT in the test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery.
DL76_PREAMBLE	LAPD/PREAMBLE/DL76_PREAMBLE	2128	Procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy.
DL77_PREAMBLE	LAPD/PREAMBLE/DL77_PREAMBLE	2129	Procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy.
DL78_PREAMBLE	LAPD/PREAMBLE/DL78_PREAMBLE	2130	Procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Reject Recovery.
DL79_PREAMBLE	LAPD/PREAMBLE/DL79_PREAMBLE	2131	Procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery.
DL80_PREAMBLE	LAPD/PREAMBLE/DL80_PREAMBLE	2132	Procedure used to place the IUT in test state

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Test Step Identifier	Test Step Reference		Description
DL81_PREAMBLE	LAPD/PREAMBLE/DL81_PREAMBLE	2133	8.2 - Timer Recovery/Normal/Reject Recovery. Procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery.
DL82_PREAMBLE	LAPD/PREAMBLE/DL82_PREAMBLE	2134	Procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal.
DL83_PREAMBLE	LAPD/PREAMBLE/DL83_PREAMBLE	2135	Procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery.
DL84_PREAMBLE	LAPD/PREAMBLE/DL84_PREAMBLE	2136	Procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy.
DL85_PREAMBLE	LAPD/PREAMBLE/DL85_PREAMBLE	2137	Procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver Busy/Reject Recovery and Own Busy.
DL86_PREAMBLE	LAPD/PREAMBLE/DL86_PREAMBLE	2138	Procedure to place the IUT in Multiple Frame Established Peer Busy State (7.4) Using RNR/F=0.
DL87_PREAMBLE	LAPD/PREAMBLE/DL87_PREAMBLE	2139	Procedure to place the IUT in Timer Recovery state (8.0) with one I-frame unacknowledged by the tester.
DL88_PREAMBLE	LAPD/PREAMBLE/DL88_PREAMBLE	2140	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL40 VERIFICATION, ensures that the IUT remains in State 4.

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Test Step Identifier	Test Step Reference		Description
DL50_ID_VERIFICATION	LAPD/VERIFICATION/D L50_ID VERIFICATION	2141	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL50_VERIFICATION, ensures that the IUT remains in State 5.
DL60_ID_VERIFICATION	LAPD/VERIFICATION/D L60_ID VERIFICATION	2142	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL60_VERIFICATION, ensures that the IUT remains in State 6.
DL70_ID_VERIFICATION	LAPD/VERIFICATION/D L70_ID VERIFICATION	2143	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL70_VERIFICATION, ensures that the IUT remains in State 7.
DL74_ID_VERIFICATION	LAPD/VERIFICATION/D L74_ID VERIFICATION	2144	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL74_VERIFICATION, ensures that the IUT remains in State 4.
DL80_ID_VERIFICATION	LAPD/VERIFICATION/D L80_ID VERIFICATION	2145	Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL80_VERIFICATION, ensures that the IUT remains in State 8.

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Test Step Identifier	Test Step Reference		Description
DL84_ID_VERIFICATION	LAPD/VERIFICATION/D L84_ID VERIFICATION	2146	IUT remains in State 8. Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtest, DL84_VERIFICATION, ensures that the IUT remains in State 8.
DL10 VERIFICATION	LAPD/VERIFICATION/D L10 VERIFICATION	2147	Verify that the IUT is in the Assigned state (2.0).
DL20 VERIFICATION	LAPD/VERIFICATION/D L20 VERIFICATION	2148	Verify that the IUT is in the Assigned state (2.0).
DL40 VERIFICATION	LAPD/VERIFICATION/D L40 VERIFICATION	2149	Verify that the IUT is in the Assigned state (2.0).
DL50 VERIFICATION	LAPD/VERIFICATION/D L50 VERIFICATION	2150	Verify that the IUT is in the Assigned state (2.0).
DL51 VERIFICATION	LAPD/VERIFICATION/D L51 VERIFICATION	2151	Verify that the IUT is in the Assigned state (2.0).
DL60 VERIFICATION	LAPD/VERIFICATION/D L60 VERIFICATION	2152	Verify that the IUT is in the Assigned state (2.0).
DL70 VERIFICATION	LAPD/VERIFICATION/D L70 VERIFICATION	2153	Verify that the IUT is in the Assigned state (2.0).
DL71 VERIFICATION	LAPD/VERIFICATION/D L71 VERIFICATION	2154	Verify that the IUT is in the Assigned state (2.0).
DL72 VERIFICATION	LAPD/VERIFICATION/D L72 VERIFICATION	2155	Verify that the IUT is in the Assigned state (2.0).
DL73 VERIFICATION	LAPD/VERIFICATION/D L73 VERIFICATION	2156	Verify that the IUT is in the Assigned state (2.0).

Continued on next page

Test Step Identifier	Test Step Reference	Description
"		Established state (7.3)
"		.
DL74_VERIFICATION	LAPD/VERIFICATION/D L74_VERIFICATION	2155 Verify that the IUT is in Multiple Frame Established state (7.4)
DL75_VERIFICATION	LAPD/VERIFICATION/D L75_VERIFICATION	2156 Verify that the IUT is in Multiple Frame Established state (7.5)
DL76_VERIFICATION	LAPD/VERIFICATION/D L76_VERIFICATION	2157 Verify that the IUT is in Multiple Frame Established state (7.6)
DL77_VERIFICATION	LAPD/VERIFICATION/D L77_VERIFICATION	2158 Verify that the IUT is in Multiple Frame Established state (7.7)
DL78_VERIFICATION	LAPD/VERIFICATION/D L80_VERIFICATION	2159 Verify that the IUT is in Timer Recovery state (8.0).
DL81_VERIFICATION	LAPD/VERIFICATION/D L81_VERIFICATION	2160 Verify that the IUT is in Timer Recovery state (8.1).
DL82_VERIFICATION	LAPD/VERIFICATION/D L82_VERIFICATION	2161 Verify that the IUT is in Timer Recovery state (8.2).
DL83_VERIFICATION	LAPD/VERIFICATION/D L83_VERIFICATION	2162 Verify that the IUT is in Timer Recovery state (8.3).
DL84_VERIFICATION	LAPD/VERIFICATION/D L84_VERIFICATION	2163 Verify that the IUT is in Timer Recovery state (8.4).
DL85_VERIFICATION	LAPD/VERIFICATION/D L85_VERIFICATION	2164 Verify that the IUT is in Timer Recovery state (8.5).
DL86_VERIFICATION	LAPD/VERIFICATION/D L86_VERIFICATION	2165 Verify that the IUT is in Timer Recovery state (8.6).
DL87_VERIFICATION	LAPD/VERIFICATION/D L87_VERIFICATION	2166 Verify that the IUT is in Timer Recovery state (8.7).
DL88_VERIFICATION	LAPD/VERIFICATION/D L40S_VERIFICATION	2167 Procedure used to verify that the IUT is in TSI Assigned state (4.0).

Abstract (continued) Part I

Test Case ID	Description	Expected Result	Actual Result	Status
LAPD/VERIFICATION/D	Procedure used to verify that the IUT is in Multiple Frame Established state (7.0)	2168		
LAPD/UNEXPECTED/DL5	To handle all acceptable unexpected messages	2169		
LAPD/UNEXPECTED/DL5	To handle all acceptable unexpected messages	2169		
LAPD/UNEXPECTED/DL5	To handle all acceptable unexpected messages	2169		
LAPD/UNEXPECTED/DL5	To handle all acceptable unexpected messages	2170		
LAPD/UNEXPECTED/DL5	To handle all acceptable unexpected messages	2170		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2171		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2171		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2172		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2173		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2173		
LAPD/UNEXPECTED/DL7	To handle all acceptable unexpected messages	2174		

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Test Step Identifier	Test Step Reference		Description
#	7_UNEXPECTED		acceptable unexpected messages
DL80_UNEXPECTED	LAPD/UNEXPECTED/DL8	2174	To handle all
#	0_UNEXPECTED		acceptable unexpected messages
DL81_UNEXPECTED	LAPD/UNEXPECTED/DL8	2175	To handle all
#	1_UNEXPECTED		acceptable unexpected messages
DL82_UNEXPECTED	LAPD/UNEXPECTED/DL8	2175	To handle all
#	2_UNEXPECTED		acceptable unexpected messages
DL83_UNEXPECTED	LAPD/UNEXPECTED/DL8	2175	To handle all
#	3_UNEXPECTED		acceptable unexpected messages
DL84_UNEXPECTED	LAPD/UNEXPECTED/DL8	2176	To handle all
#	4_UNEXPECTED		acceptable unexpected messages
DL85_UNEXPECTED	LAPD/UNEXPECTED/DL8	2176	To handle all
#	5_UNEXPECTED		acceptable unexpected messages
DL86_UNEXPECTED	LAPD/UNEXPECTED/DL8	2177	To handle all
#	6_UNEXPECTED		acceptable unexpected messages
DL87_UNEXPECTED	LAPD/UNEXPECTED/DL8	2177	To handle all
#	7_UNEXPECTED		acceptable unexpected messages
DL_POSTAMBLE	LAPD/POSTAMBLE/DL8	2178	Procedure used to return the IUT to the selected 'idle state'. Depending on the value of test suite parameter IDLE_STATE4, it will call either DL4 POSTAMBLE or DL7 POSTAMBLE to set the IUT to state 4.0 or 7.0. This routine is executed at the end of each test case for Multiple Frame
#			Operations.
DL4_POSTAMBLE	LAPD/POSTAMBLE/DL4		Procedure used to return the IUT to the selected 'idle state'.
#	POSTAMBLE		Assigned state (4.0) at the end of a test case for Multiple Frame
#			

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4 Abstract Test Suite - Part I

LAPD Conformance Testing

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Test Step Identifier	Test Step Reference		Description
#			Operations. This routine is executed when the test suite parameter IDLE_STATE4 is false.
DL7_POSTAMBLE	LAPD/POSTAMBLE/DL7	2181	Procedure used to return the IUT to the selected 'idle state'.
#	POSTAMBLE		Multiple Frame
#			Established state (7.0) at the end of a test case for Multiple Frame
#			Operations. This routine is executed when the test suite parameter IDLE_STATE4 is false.
Default Identifier	Default Reference		Description

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Name	Type	PICS/PIXIT Ref.	Comments
# # CAN_INIT_DISC # # # # #	BOOLEAN	PIXIT 12.	any state on demand? Can IUT initiate inline release on demand?
IDLE_STATE4 # # # # # # # # # #	BOOLEAN	PIXIT 13.	What is the preferred idle state of the IUT for MFO? Set to true for state 4, false for state 7.
STABLE_IN_STATE4 # # # # # # # # # #	BOOLEAN	PIXIT 14.	If idle state is 7, can IUT be forced to stay in state 4.0 for testing?
CAN_TEST_OWN_BUSY # # # # #	BOOLEAN	PIXIT 15.	Can IUT be forced to allow own busy condition on demand?
CAN_CLR_OWN_BUSY # # # # #	BOOLEAN	PIXIT 16.	Can IUT be forced to clear the busy condition on demand?
CAN_SEND_A_IFRAME # # # # # # #	BOOLEAN	PIXIT 17.	Can IUT be forced to send one I-frame on demand?
CAN_SEND_IFRAMES # # # # #	BOOLEAN	PIXIT 18.	Can IUT be forced to more than one I-frame on demand?

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Name	Type	PICS/PIXIT Ref.	Comments
ID_VER_IMP	BOOLEAN	PIXIT 19.	Does IUT implement TEI Id
UNSOLQA_ID_VER	BOOLEAN	PIXIT 20.	Verify procedures? Does IUT initiate TEI Id
			Verify procedures upon receipt of an unsolicited UA in state s 4-8?
ACT_ON_MDL_ERROR	BOOLEAN	PIXIT 21.	Does IUT send any frame on MDL-ERR-IND (A) and (B) ?
ACT_ON_GH_MDL_ERR	BOOLEAN	PIXIT 22.	Does the IUT initiate Identity Verification or TEI removal procedure for MDL Error Indications G and H?
T203_IMPLEMENTED	BOOLEAN	PIXIT 23.	Is T203, timer for link monitoring implemented?
T200value	INTEGER	PIXIT 24.	Value of T200 timer in milliseconds.
T201value	INTEGER	PIXIT 24.	Value of T201 timer in milliseconds.

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Name	Type	PIXIT Set	Comments
T200 Value	INTEGER	PIXIT 24.	Value of 1200 timer in milliseconds, if implemented.
DELTA	INTEGER	PIXIT 25.	The delay (ms) in processing and transmitting messages between the IUT and Tester.
IdValue	INTEGER	PIXIT 26, 28.	Enter the sum of 1200 timer (PIXIT 24) and delay time (PIXIT 25).
T200 tol	INTEGER	PIXIT 26.	Tolerance of timer of 1200, if tested.
Flvalue	INTEGER	PIXIT 27.	Value of timer, in milliseconds, used to ensure response from IUT when layer 3 messages are expected.
ID_REM_ON_DUP_TEI	BOOLEAN	PIXIT 28.	Does the IUT remove its TEI value upon receipt of an ID-Assign with Assignment duplicated? True if
Q931SW_PRESENT	BOOLEAN	PIXIT 29.	

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Name	Type	PIXIT Set	Comments
UNBOUNDED_FRAME	BOOLEAN	PIXIT 30.	Does the IUT regards an unbounded frame as two times the longest permissible frame plus two octets are received without a flag detection.
UNBOUNDED_32E	INTEGER	PIXIT 30.	Enter the length of a frame at which a frame is considered unbounded.
TEI_check_no_three	BOOLEAN	PIXIT 31.	Does the IUT check the TEI number of the identity assigned message received if there is no identity check request message outstanding?
STABLE_IN_S1	BOOLEAN	PIXIT 32.	Does the IUT remain in the TEI unassigned state after removal of

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Name	Type	PICS/PIXIT Ref.	Comments
#			the TEI number.

Test Suite Constants			
Name	Type	Value	Comments
SETUP			
RELEASE	OCTETSTRING	'08010105'0	13 Setup message
REL_COMP	OCTETSTRING	'0901014D'0	13 Release message
#	OCTETSTRING	'0801010A'0	13 Release Complete message
T202value	INTEGER	2200	Minimum response time for TEI ID Request
REL_COMP_DCR	OCTETSTRING	'0801010A'0	13 Release Complete message, with different TEI
RELASE_DCR	OCTETSTRING	'0801010A'0	13 Release message, with different TEI

Test Suite Variables			
Name	Type	Value	Comments
AI_No	INTEGER	For AI (TEI) assigned in UI Mgmt frame	
NR_No	BITSTRING	For assigning N(R)	
RI_No	INTEGER	For RI number in UI Mgmt frames	
TEI_No	INTEGER	For assigning TEI number	
V_S	INTEGER	For assigning V(S) in UI	
V_R	INTEGER	For assigning V(R) in UI	
V_A	INTEGER	For assigning V(A) in UI	
Temp	INTEGER	For assigning temp values.	

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Test Case Variables			
Name	Type	Value	Comments
AI_No	INTEGER		For 2nd AI (TEI) number in Id check request list
BADPCS	Bitstring		For incorrect Frame Check Sequence
CNT	INTEGER	0	Counter for retransmissions
FAIL_FL	BOOLEAN		Flag: set TRUE or FALSE
FLAG	BOOLEAN		Flag: set TRUE or FALSE
I_CNT	INTEGER	0	Counter for I frames
ID_REQ_CNT	INTEGER	0	Counter for number of Id Requests transmitted by IUT
ME_ID	Octetstring		For invalid Management Entity Identifier in UI Mgmt
MSG_Type	Octetstring		For invalid Message Type in UI Mgmt
N_S	INTEGER		For value of N(S) when the tester needs to send an I frame.
N_R	INTEGER		For value of N(R) when the tester needs to send a Supervisory or I frame to IUT.
Retransmission count	INTEGER	0	Retransmission count
V_A	Bitstring		For invalid SAPI value
V_RI	Bitstring		For invalid TEI value
V	INTEGER		For incrementing expected V(R) value from IUT

PICS Type Descriptions			
Name	Type	Role	Comments
I	ISAP	ST	Point of control at lower Tester

Test Specifications		
Item Name	Specification	Comments
1.1.1	Value	For TTI present, value is zero.
1.1.2	Value	Minimum resolution time for TTI is 100 ms.
1.1.3	Value	Time for start of action on TTI. Used to implement send for test coordination.
1.1.4	Value	The value of TTI plus the delay in processing and transfer between the TTI and test.
1.1.5	Value	Time for response (TTL) tested so from the TTI.

PDU Type Declaration		
PDU Name: ABORT FRM	PCO Type:	Comments
TEXT	Octetstring	Insert seven consecutive ones after zero bit insertion

Test Specifications		
PDU Name: PDU Type	Comments	Comments
1.1.1	Value	For TTI present, value is zero.
1.1.2	Value	Minimum resolution time for TTI is 100 ms.
1.1.3	Value	Time for start of action on TTI. Used to implement send for test coordination.
1.1.4	Value	The value of TTI plus the delay in processing and transfer between the TTI and test.
1.1.5	Value	Time for response (TTL) tested so from the TTI.

PDU Type Declaration		
PDU Name: PDU Type	Comments	Comments
1.1.1	Value	For TTI present, value is zero.
1.1.2	Value	Minimum resolution time for TTI is 100 ms.
1.1.3	Value	Time for start of action on TTI. Used to implement send for test coordination.
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1.1.5	Value	Time for response (TTL) tested so from the TTI.

PDU Type Declaration		
PDU Name: PDU Type	Comments	Comments
1.1.1	Value	For TTI present, value is zero.
1.1.2	Value	Minimum resolution time for TTI is 100 ms.
1.1.3	Value	Time for start of action on TTI. Used to implement send for test coordination.
1.1.4	Value	The value of TTI plus the delay in processing and transfer between the TTI and test.
1.1.5	Value	Time for response (TTL) tested so from the TTI.

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Field Name	Type	Comments
F	Bitstring	Final bit

POU Type Declaration		
POU Name:DM_T	PCO Type:	Comments:DM_T is long information field
Field Name	Type	Comments
SAPI	Bitstring	Cmd Resp
C_P	Bitstring	Cmd Resp
EA_0	Bitstring	TEI number
TEI	Bitstring	final bit
EA_1	Bitstring	ctrl field
F	Bitstring	

POU Type Declaration		
POU Name:DM_T	PCO Type:	Comments:DM_T is long information field
Field Name	Type	Comments
SAPI	Bitstring	Cmd Resp
C_R	Bitstring	TEI number
EA_0	Bitstring	final bit
TEI	Bitstring	ctrl field
EA_1	Bitstring	ctrl field
F	Bitstring	
REQDISC_H	Bitstring	
V_S	Bitstring	
V_R	Bitstring	
CR	Bitstring	
WXYZ	Bitstring	

LAPD Conformance Testing

POU Type Declaration		
POU Name:FRMR_DM	PCO Type:	Comments:FRMR rejecting Disconnected Mode frame.
Field Name	Type	Comments
SAPI	Bitstring	Cmd Resp
C_R	Bitstring	TEI number
EA_0	Bitstring	final bit
TEI	Bitstring	ctrl field
EA_1	Bitstring	ctrl field
F	Bitstring	
REQDISC_H	Bitstring	
V_S	Bitstring	
V_R	Bitstring	
CR	Bitstring	
WXYZ	Bitstring	

POU Type Declaration		
POU Name:FRMR_DM	PCO Type:	Comments:FRMR rejecting Information frame.
Field Name	Type	Comments
SAPI	Bitstring	Cmd Resp
C_R	Bitstring	TEI number
EA_0	Bitstring	final bit
TEI	Bitstring	ctrl field
EA_1	Bitstring	ctrl field
F	Bitstring	
REQDISC_H	Bitstring	
V_S	Bitstring	
V_R	Bitstring	
CR	Bitstring	
WXYZ	Bitstring	

LAPD Conformance Testing

PDU Name/Field Name	Field Name	Type	Comments
PDU Type Declaration			
SAPI	Bitstring		
C_R	Bitstring		Cmd / Resp
EA_0	Bitstring		
TEI	Bitstring		TEI number
EA_1	Bitstring		
F	Bitstring		final bit
REJSA_H	Bitstring		ctrl field
REJSA_NR	Bitstring		ctrl field
REJSA_F	Bitstring		ctrl field
V_S	Bitstring		
V_R	Bitstring		
CR	Bitstring		
WXYZ	Bitstring		

PDU Type Declaration			
PDU Name: FMR_SA	PDU Type:	Comments: FMR Too Long Set Asynchronous Balanced Mode Extended Frame	
PDU Field Information			
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
F	Bitstring	final bit	
REJSA_H	Bitstring	ctrl field	
REJSA_V	Bitstring		
V_R	Bitstring		
CR	Bitstring		
WXYZ	Bitstring		

LAPD Conformance Testing

PDU Name/Field Name	Field Name	Type	Comments
PDU Type Declaration			
PDU Name: FMR_SA	PDU Type:	Comments: FMR Too Long - rejecting Receive Ready frames	
PDU Field Information			
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
F	Bitstring	final bit	
REJSA_H	Bitstring	ctrl field	
REJSA_NR	Bitstring	ctrl field	
REJSA_F	Bitstring	ctrl field	
V_S	Bitstring		
V_R	Bitstring		
CR	Bitstring		
WXYZ	Bitstring		

PDU Type Declaration			
PDU Name/Field Name	PDU Type:	Comments: FMR Too Long -- rejecting Receive Ready frames	
PDU Field Information			
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
F	Bitstring	final bit	
REJSA_H	Bitstring	ctrl field	
REJSA_NR	Bitstring	ctrl field	
REJSA_F	Bitstring	ctrl field	
V_S	Bitstring		
V_R	Bitstring		
CR	Bitstring		
WXYZ	Bitstring		
I FIELD	LONG I FIELD		

LAPD Conformance Testing

PDU Type Declaration		
PDU Name:FRMR_UA	PCO Type: FRMR retesting Unanswered Acknowledge frame.	
PDU Field Information:		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
F	Bitstring	final bit
REJUA_H	Bitstring	cntrl field
V_S	Bitstring	
V_R	Bitstring	
CR	Bitstring	
WXYZ	Bitstring	

LAPD Conformance Testing

PDU Type Declaration		
PDU Name:I_FCS	PCO Type:	Comments:Information frame with bad FCS
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
N_S	Bitstring	N(S)
N_R	Bitstring	N(R)
P	Bitstring	poll bit
I_Field	Octetstring	Information field - protocol discriminator
#	Bitstring	This field should contain a bad Frame Check Sequence

PDU Type Declaration		
PDU Name: I	PCO Type:	Comments: Information
PDU Field Information		
Field Name:	Type	Comments
SAPI	Bitstring	
C R	Bitstring	Cmd / Resp
EA 0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
N_S	Bitstring	N(S)
N_R	Bitstring	N(R)
P	Bitstring	poll bit
I Field	Octetstring	Information field - protocol discriminator

PDU Type Declaration		
PDU Name:I_NF	PCO Type:	Comments:I frame that is not bounded by two flags.
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
N_S	Bitstring	
N_R	Bitstring	
P	Bitstring	
I_FIELD	I_FIELD_LONG	The length of the Info field will be 2*N201+1 octets.

PDU Name: I_U		PDU Type: I_U		Comments: I_U	
Field Name		Field Type		Comments	
SAPI	Bitstring	Cmd / Resp			
C_R	Bitstring	Cmd / Resp			
EA_0	Bitstring	TEI number			
TEI	Bitstring	TEI number			
EA_1	Bitstring	N(S)			
N_S	Bitstring	N(R)			
N_R	Bitstring	poll bit			
P_F	Bitstring	poll bit			
I_FIELD	LONG 1 FIELD				

PDU Name: REJ		PDU Type: REJ		Comments: Reject	
Field Name		Field Type		Comments	
SAPI	Bitstring	Cmd / Resp			
C_R	Bitstring	TEI number			
EA_0	Bitstring	N(R)			
TEI	Bitstring	poll/final bit			
EA_1	Bitstring				
N_R	Bitstring				
P_F	Bitstring				

PDU Name: I_U		PDU Type: I_U		Comments: I_U	
Field Name		Field Type		Comments	
SAPI	Bitstring	Cmd / Resp			
C_R	Bitstring	TEI number			
EA_0	Bitstring	TEI number			
TEI	Bitstring	N(R)			
EA_1	Bitstring	poll bit			
N_R	Bitstring				
P_F	Bitstring				
I_FIELD	LONG 1 FIELD				

PDU Name: RNR		PDU Type: RNR		Comments: Receive Not Ready	
Field Name		Field Type		Comments	
SAPI	Bitstring	Cmd / Resp			
C_R	Bitstring	TEI number			
EA_0	Bitstring	N(R)			
TEI	Bitstring	poll/final bit			
EA_1	Bitstring				
N_R	Bitstring				
P_F	Bitstring				

PDU Type Declaration			
PDU Name:RRR_TL	PCO Type:	Comments:RRR Too Long	
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmnd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
N_R	Bitstring	N(R)	
P_F	Bitstring	poll bit	
I_FIELD	Octetstring		

PDU Type Declaration			
PDU Name:RR	PCO Type:	Comments:Receive Ready	
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmnd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
N_R	Bitstring	N(R)	
P_F	Bitstring	poll/final bit	

PDU Type Declaration			
PDU Name:RRB	PCO Type:	Comments:Receive Ready	
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmnd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		

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Field Name	Type	Comments
N_R	Bitstring	N(R)
P_F	Bitstring	poll/final bit

PDU Type Declaration			
PDU Name:RR_TL	PCO Type:	Comments:RP Too Long	
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmnd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
N_R	Bitstring	N(R)	
P_F	Bitstring	poll/final bit	
I_FIELD	Octetstring	extra invalid field	

PDU Type Declaration			
PDU Name:SABME	PCO Type:	Comments:Set Asynchronous Balanced Mode Extended	
Field Name	Type	Comments	
SAPI	Bitstring		
C_R	Bitstring	Cmnd / Resp	
EA_0	Bitstring		
TEI	Bitstring	TEI number	
EA_1	Bitstring		
P	Bitstring	poll bit	

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PDU Type Declaration		
PDU Name: SAHME_FCS	PCO Type:	Comment:s:SAHME That has a bad frame check sequence (FCS)
PDU Field Information		
Field Name	Type	Comments
SAP	Bitstring	Cmd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
P	Bitstring	poll bit
NEW_FCS	Bitstring	This field should contain a bad Frame Check Sequence
#		

PDU Type Declaration		
PDU Name: SABME_NOT	PCO Type:	Comments: SABME that is not octet aligned; the control field (CF) has seven bits.
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	Cmd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
P	Bitstring	poll bit
NEW_CF	Bitstring	This field should contain a seven bit control field.
#		

LAPD Conformance Testing

PDU Type Declaration		
PDU Name: SAHME_NRT	PCO Type:	Comment:s:SAHME that is one octet too short.
PDU Field Information		
Field Name	Type	Comment:s
SAP	Bitstring	Cmd / Resp
C_R	Bitstring	
EA_0	Bitstring	
P	Bitstring	
	Bitstring	poll bit

PDU Type Declaration		
PDU Name: SAHME_TL	PCO Type:	Comments: SAHME Too Long
PDU Field Information		
Field Name	Type	Comments
SAP	Bitstring	Cmd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
P	Bitstring	poll bit
1_FIELD	Octetstring	extra invalid field

PDU Type Declaration		
PDU Name:UA	PCO Type:	Comments:Unnumbered Acknowledgment
PDU Field Information		
Field Name	Type	Comments
SAP	Bitstring	Cmd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
	Bitstring	poll bit

LAPD Conformance Testing

PDU Type Declaration		
PDU Name:UA_TL	PCO Type:	Comments:UA Too Long
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	Cmnd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	TEI number
P	Bitstring	final bit
I_FIELD	Bitstring	
	Octetstring	extra invalid field

PDU Type Declaration		
PDU Name:UI	PCO Type:	Comments:UI Frame
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	
P	Bitstring	
I_field	Octetstring	

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PDU Type Declaration		
PDU Name:UI_FCS	PCO Type:	Comments:UI with bad FCS
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	Cmnd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	TEI number
P	Bitstring	poll bit
I_Field	Bitstring	
NEW_FCS	Octetstring	Information field
#	Bitstring	This field should contain a bad Frame Check Sequence

PDU Type Declaration		
PDU Name:UI_Mgmt	PCO Type:	Comments:UI frame with text of TEI management
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	Cmnd / Resp
C_R	Bitstring	
EA_0	Bitstring	
TEI	Bitstring	
EA_1	Bitstring	TEI number
P	Bitstring	poll bit
ME ID	Bitstring	
Ri	Octetstring	Management Entity Identifier
MSG_TYPE	Bitstring	UI Management message type
AI	Octetstring	For TEI numbers
E	Bitstring	

PDU Type Declaration		Comment: UI frame with extension
PDU Name: UI_Mgmt_res	PCO Type:	Comments
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
P	Bitstring	poll bit
ME_ID	Octetstring	Management Entity Identifier
RI	Bitstring	
MSG_TYPE	Octetstring	UI Management message type
AI_1	Bitstring	For 1st TEI number
E_1	Bitstring	Extension bit
AI_2	Bitstring	For 2nd TEI number
E_2	Bitstring	Extension bit

PDU Type Declaration		Comment: UI frame with extension
PDU Name: UI_Mgmt_res	PCO Type:	Comments
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
P	Bitstring	poll bit
ME_ID	Octetstring	Management Entity Identifier
RI	Bitstring	
MSG_TYPE	Octetstring	UI Management message type
TEXT	Octetstring	For variable number of TEI values listed in Io Check
#		Response sent by IUT

PDU Type Declaration		Comment: UI frame with extension
PDU Name: UI_Mgmt_res	PCO Type:	Comments
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
P	Bitstring	poll bit
ME_ID	Octetstring	Information field

PDU Type Declaration		Comment: Undefined unnumbered frame with no control field
PDU Name: UNDEF	PCO Type:	Comments
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Cmd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
NEW_C_F	Octetstring	This field should contain an invalid number for the frame control field
#		

PDU Type Declaration		
PDU Name:XID	PCO Type:	Comments:
PDU Field Information		
Field Name	Type	Comments
SAPI	Bitstring	
C_R	Bitstring	Crnd / Resp
EA_0	Bitstring	
TEI	Bitstring	TEI number
EA_1	Bitstring	
P_F	Bitstring	poll/final bit
I_FIELD	VAR_I_FIELD	Text of XID is variable
#	length	

PDU Constraint Declaration		
PDU Name:ABORT_FRM	Constraint Name:ABORT_FRM	
Field Name	Value	
TEXT	?	
Comments:1)	A PDU that contains 7 consecutive ones after zero-bit insertion has been performed. This shall be interpreted as an aborted frame., 2)	

PDU Constraint Declaration		
PDU Name:DISC	Constraint Name:DISC_NC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'0'B	
Comments:1)	2)	3)
	4)	5)
		6)

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	7)
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PDU Constraint Declaration		
PDU Name:DISC	Constraint Name:DISC1_UC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1)	2)	3)
	4)	5)
		6)

PDU Constraint Declaration		
PDU Name:DISC	Constraint Name:DISC0_NC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'0'B	
Comments:1)	2)	3)
	4)	5)
		6)

PDU Constraint Declaration		
PDU Name:DM	Constraint Name:DM	NR
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:DM	Constraint Name:DM	NR
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'1'B	
U_FIELD	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:DM	Constraint Name:DM	NR
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'1'B	
U_FIELD	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:DM	Constraint Name:DM	NR
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'0'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:DM	Constraint Name:DM	NR
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

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PDU Constraint Declaration	
PDU Name:DM	Constraint Name:DMF NR(F:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
F	F
Comments:1) , 2) , 3) , 4) , 5) , 6)	
, 7)	

PDU Constraint Declaration	
PDU Name:DM	Constraint Name:DM0 UR
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
F	'0'B
Comments:1) , 2) , 3) , 4) , 5) , 6)	
, 7)	

PDU Constraint Declaration	
PDU Name:DM	Constraint Name:DM1 UR
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
F	'1'B
Comments:1) , 2) , 3) , 4) , 5) , 6)	
, 7)	

PDU Constraint Declaration	
PDU Name:DM	Constraint Name:DMF UR(F:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
F	F
Comments:1) , 2) , 3) , 4) , 5) , 6)	
, 7)	

PDU Constraint Declaration	
PDU Name:DM_TL	Constraint Name:DM_TL0_NR
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
F	'0'B
I FIELD	'11'O

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Comment s:1)	1, 2), 3), 4), 5), 6), 7), 8),
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PDU Constraint Declaration	
PDU Name:FRMR	Constraint Name:FRMR_21scl NR
Field Name	Value
SAPI	'SAPI' N
CR	'0'B
EA 0	'0'B
TEI	'TEI' N
EA 1	'0'B
F	'0'B
14.FLD	'0'B
Comment s:1)	1, 2), 3), 4), 5), 6), 7), 8),

PDU Constraint Declaration	
PDU Name:FRMR DISC	Constraint Name:FRMR_21scl NR
Field Name	Value
SAPI	'SAPI' N
CR	'0'B
EA 0	'0'B
TEI	'TEI' N
EA 1	'0'B
F	'0'B
REJDISC H	'01010011'B
V S	'0'B
V R	'0'B
CR	'0'B
WXY2	'1100'B
Comment s:1)	1, 2), 3), 4), 5), 6), 7), 8), 9), 10), 11), 12)

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PDU Constraint Declaration	
PDU Name:FRMR	Constraint Name:FRMR_001 NR
Field Name	Value
SAPI	'SAPI' N
CR	'0'B
EA 0	'0'B
TEI	'TEI' N
EA 1	'0'B
F	'0'B
14.FLD	'00011111'B
CR	'0'B
WXY2	'1100'B
Comment s:1)	1, 2), 3), 4), 5), 6), 7), 8), 9), 10), 11), 12)

PDU Constraint Declaration	
PDU Name:FRMR	Constraint Name:FRMR_11 NR
Field Name	Value
SAPI	'SAPI' N
CR	'0'B
EA 0	'0'B
TEI	'TEI' N
EA 1	'0'B
F	'0'B
REJ: N5	'00000000'B
REJ: NR	'00000000'B
REJ: P	'0'B
V S	'0'B
V R	'0'B
CR	'0'B
WXY2	'1100'B
Comment s:1)	1, 2), 3), 4), 5), 6), 7), 8), 9), 10), 11), 12), 13), 14)

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PDU Constraint Declaration		
PDU Name:FRMR_RR	Constraint Name:FRMR_RR1_NR	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
F	'1'B	
REJRR_H	'00000001'B	
REJRR_NR	'0'B	
REJRR_F	'1'B	
V_S	'0'B	
V_P	'0'B	
CR	'1'B	
WXYZ	'0001'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) 7) , 8) , 9) , 10) , 11) 12) , 13) , 14)		

PDU Constraint Declaration		
PDU Name:FRMR_SA	Constraint Name:FRMR_SA1_NR	
Field Name	Value	
SAPI	SAPI_N	
C_P	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
F	'1'B	
REJSA_H	'01111111'B	
V_S	'0'B	
V_P	'0'B	
CR	'0'B	
WXYZ	'1100'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) 7) , 8) , 9) , 10) , 11) 12)		

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PDU Constraint Declaration		
PDU Name:FRMR_SUP	Constraint Name:FRMR_SUP1_NR	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
F	'1'B	
REJSUP_H	'00000101'B	
REJSUP_NR	'0'B	
REJSUP_F	'1'B	
V_S	'0'B	
V_P	'0'B	
CR	'1'B	
WXYZ	'0001'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) 7) , 8) , 9) , 10) , 11) 12) , 13) , 14)		

PDU Constraint Declaration		
PDU Name:FRMR_TL	Constraint Name:FRMR_TL0_NR	
Field Name	Value	
SAPI	SAPI_N	
C_P	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
F	'0'B	
REJTB_H	'00000001'B	
REJTB_NR	'0'B	
REJTB_F	'1'B	
V_S	'0'B	
V_P	'0'B	
CR	'1'B	
WXYZ	'0100'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) 7) , 8) , 9) , 10) , 11)		

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, 12), 13), 14), 15)

PDU Constraint Declaration		
PDU Name: FRMR_TL	Field Name	Constraint Name: FRMR_TL_NR Value
SAPI		SAPI_N
C_R		'0'B
EA_0		'0'B
TEI		TEI_N
EA_1		'1'B
F		'1'B
REJRR_H		'00000001'B
REJRR_NR		'0'B
REJRR_F		'1'B
V_S		'0'B
V_R		'0'B
CR		'1'B
WXYZ		'0000'B
I_Field		'11'0
Comments: 1), 2), 3), 4), 5), 6) , 7), 8), 9), 10), 11) , 12), 13), 14), 15)		

PDU Constraint Declaration		
PDU Name: FRMR_UA	Field Name	Constraint Name: FRMR_UA_NR Value
SAPI		SAPI_N
C_R		'0'B
EA_0		'0'B
TEI		TEI_N
EA_1		'1'B
F		'1'B
REJRR_H		'01110011'B
V_S		'0'B
V_R		'0'B
CR		'1'B
WXYZ		'1100'B
Comments: 1), 2), 3), 4), 5), 6) , 7), 8), 9), 10), 11) , 12)		

PDU Constraint Declaration		
PDU Name: I	Field Name	Constraint Name: I0_NC(N_S,N_R: BITSTRING) Value
SAPI		SAPI_N
C_R		'1'B
EA_0		'0'B
TEI		TEI_N
EA_1		'1'B
N_S		N_S
N_R		N_R
P		'0'B
I_Field		'FF'0
Comments: 1), 2), 3), 4), 5), 6) , 7), 8), 9), 10)		

PDU Constraint Declaration	
PDU Name:I	Constraint Name:IO_NC(N,S,N,R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'0'B
I_Field	-
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9) No information field present, 10)	

PDU Constraint Declaration	
PDU Name:I	Constraint Name:IL_NC(N,S,N,R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'1'B
I_Field	'FF'0
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9) , 10)	

PDU Constraint Declaration	
PDU Name:I	Constraint Name:IO_UC(N,S,N,R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_P
P	'0'B
I_Field	?
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9) , 10)	

PDU Constraint Declaration	
PDU Name:I	Constraint Name:IL_UC(N,S,N,R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'P
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
I_Field	?
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9) , 10)	

PDU Constraint Declaration	
PDU Name: I	Constraint Name: IN30_UC(N,S,N,R; BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'0'B
I_Field	RELEASE
Comments: I frame w/ Release message.	

PDU Constraint Declaration	
PDU Name: I	Constraint Name: IN20_UC(N,S,N,R; BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'0'B
I_Field	REL_COMP
Comments: I frame with Release Complete message.	

PDU Constraint Declaration	
PDU Name: I	Constraint Name: IN40_UC(N,S,N,R; BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'0'B
I_Field	REL_COMP
Comments: I frame with Release Complete message.	

PDU Constraint Declaration	
PDU Name: I	Constraint Name: IN41_UC(N,S,N,R; BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'1'B
I_Field	REL_COMP
Comments: I frame with Release Complete message.	

PDU Constraint Declaration		
PDU Name:I	Constraint Name:IN51_NC(N,S,N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_S	N_S	
N_R	N_R	
P	'1'B	
I_Field	REL_COMP	
Comments:I frame with Release Complete message.		

PDU Constraint Declaration		
PDU Name:I	Constraint Name:IN60_NC(N,S,N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'_B	
EA_0	'0'_B	
TEI	TEI_N	
EA_1	'1'_B	
N_S	N_S	
N_R	N_R	
P	'0'_B	
I_Field	RELEASE_DCR	
Comments:I	frame w/ Release message.	

PDU Constraint Declaration		
PDU Name:I	Constraint Name:IN70_UC(N,S,N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_S	N_S	
N_R	N_R	
P	'0'B	
I_Field	REL_COMP_DCR	
Comments:I frame with Release Complete message.		

PDU Constraint Declaration		
PDU Name:I	Constraint Name:IP_NC(N_S,N_R,P:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_S	N_S	
N_R	N_R	
P	P	
I_Field	'FF'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9) , 10)		

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PDU Name	PDU Constraint Declaration
PDU Name: 1	Constraint Name: INFL_NC(N 5, N 8, N 9, N 10) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'FF'O
I_Field	?
Comments: 1	2), 3), 4), 5), 6)
	7), 8), 9), 10)

PDU Name	PDU Constraint Declaration
PDU Name: 1	Constraint Name: INFL_NC(TEI_N, N 5, N 8, N 9, N 10) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'1'B
I_Field	'FF'O
Comments: 1	2), 3), 4), 5), 6)
	7), 8), 9), 10)

LAPD Conformance Testing

PDU Name	PDU Constraint Declaration
PDU Name: 1	Constraint Name: INFL_NC(N 5, N 8, N 9, N 10) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'FF'O
I_Field	?
NW_Fld	NRD_Cb
Comments: 1	2), 3), 4), 5), 6)
	7), 8), 9), 10)
	NW_Fld is not satisfied a
	bad PDU value for frame
	field is not satisfied, 1)

PDU Name	PDU Constraint Declaration
PDU Name: 1	Constraint Name: INFL_NC(N 5, N 8, N 9, N 10) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_S	N_S
N_R	N_R
P	'1'B
I_Field	'11'OF UNBOUNDED SIZE
Comments: 1	2), 3), 4), 5), 6)
	7), 8), 9), 10) Refer
	to PIXIT 10.

PDU Constraint Declaration		
PDU Name: REJ	Constraint Name: REJ0_NC(N R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1','B	
EA_0	'0','B	
TEI	TEI_N	
EA_1	'1','B	
N_R	N_R	
P_F	'0','B	
Comments: 1) , 2) , 3) , 4) , 5) , 6) 7) , 8)		

PDU Constraint Declaration		
PDU Name: REJ	Constraint Name: REJ0_UR(N_R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1','B	
EA_0	'0','B	
TEI	TEI_N	
EA_1	'1','B	
N_R	N_R	
P_F	'0','B	
Comments: 1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:REJ	Constraint Name:REJC UC(N_R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'0'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

PDU Constraint Declaration		
PDU Name:REJ	Constraint Name:REJ NC(N_R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

PDU Constraint Declaration		
PDU Name:REJ	Constraint Name:REJ NR(N_R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

PDU Constraint Declaration		
PDU Name:REJ	Constraint Name:REJ UC(N_R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:REJ	Constraint Name:REJ_TL_UR(N R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:REJ_TL	Constraint Name:REJ_TL0_NC(N R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'0'B	
I_FIELD	'1'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9)		

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:REJ_TL	Constraint Name:REJ_TL1_NC(N R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
I_FIELD	'1'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9)		

PDU Constraint Declaration		
PDU Name:RNR	Constraint Name:RNR0_NC(N R: BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'0'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration	
PDU Name: RNR	Constraint Name: RNR_NC(NR) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
NR	NR
P_F	'0'B
Comments: 1) , 2) , 3) , 4) , 5) , 6)	
, 7) , 8)	

PDU Constraint Declaration	
PDU Name: RNR	Constraint Name: RNR_NC(NR) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
NR	NR
P_F	'0'B
Comments: 1) , 2) , 3) , 4) , 5) , 6)	
, 7) , 8)	

PDU Constraint Declaration	
PDU Name: RNR	Constraint Name: RNR_NC(NR) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
NR	NR
P_F	'0'B
Comments: 1) , 2) , 3) , 4) , 5) , 6)	
, 7) , 8)	

PDU Constraint Declaration	
PDU Name: RNR	Constraint Name: RNR_NC(NR) BITSTRING
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
NR	NR
P_F	'1'B
Comments: 1) , 2) , 3) , 4) , 5) , 6)	
, 7) , 8)	

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:RNR	Constraint Name:RNR1_NR(N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:RNR	Constraint Name:RNR1_UC(N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:RNR	Constraint Name:RNR1_UR(N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:RNR_TL	Constraint Name:RNR_TLO_NC(N_R:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
N_R	N_R	
P_F	'0'B	
I FIELD	'1'O	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8) , 9)		

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_NCN_R:BITSTRING	Value
Field Name		
SAPI	SAPI_N	
CR	'0'B	
EA_O	'0'B	
TEI	TEI_N	
EA_I	'1'B	
NR	NR_N	
PF	'0'B	
Comments:1)	2)	3)
4)	5)	6)
7)	8)	9)

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:NR_NCN_R:BITSTRING	Value
Field Name		
SAPI	SAPI_N	
CR	'1'B	
EA_O	'0'B	
TEI	TEI_N	
EA_I	'1'B	
NR	NR_N	
PF	'1'B	
Comments:1)	2)	3)
4)	5)	6)
7)	8)	9)

LAPD Conformance Testing

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_NCN_R:BITSTRING	Value
Field Name		
SAPI	SAPI_N	
CR	'1'B	
EA_O	'0'B	
TEI	TEI_N	
EA_I	'1'B	
NR	NR_N	
PF	'0'B	
Comments:1)	2)	3)
4)	5)	6)
7)	8)	9)

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_NCN_R:BITSTRING	Value
Field Name		
SAPI	SAPI_N	
CR	'0'B	
EA_O	'0'B	
TEI	TEI_N	
EA_I	'1'B	
NR	NR_N	
PF	'0'B	
Comments:1)	2)	3)
4)	5)	6)
7)	8)	9)

PDU Constraint Declaration	
PDU Name:RR	Constraint Name:RR0_UC(N_R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'0'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_R	N_R
P_F	'0'B
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)	

PDU Constraint Declaration	
PDU Name:RR	Constraint Name:RA0 UR(N R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C P	'1'B
EA 0	'0'B
TEI	TEI_N
EA 1	'1'B
N_R	N_R
P_F	'0'B
Comments:1)	2) , 3) , 4) , 5) , 6) , 7) , 8)

PDU Constraint Declaration	
PDU Name:RR	Constraint Name:RR_NC(N,R:BITSTRING)
Field Name	Value
SAPI	SAPI_N
C_R	'1'B
EA_0	'0'B
TEI	TEI_N
EA_1	'1'B
N_R	N_R
P_F	'1'B
Comments:1, 2, 3, 4, 5, 6 , 7, 8)	

PDU Name:RR		PDU Constraint Declaration	
Field Name		Constraint Name:RR1 NR(N_R:BITSTRING)	
Value		Value	
SAPI	SAPI_N		
C_R	'0'B		
EA_0	'0'B		
TEI	TEI_N		
EA_1	'1'B		
N_R	N_R		
P_F	'1'B		
Comments:1) , 2) , 3) , 4) , 5) , 6)		1) , 7) , 8)	

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_URIN_R:BITERRING	
Field Name	Value	
SAP	SAP: N	
CR	'1'B	
EA_0	'0'B	
TEL	TEL: N	
EA_1	'1'B	
NR	NR	
PF	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_URIN_R:BITERRING	
Field Name	Value	
SAP	SAP: N	
CR	'1'B	
EA_0	'0'B	
TEL	TEL: N	
EA_1	'1'B	
NR	NR	
PF	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_URIN_R:BITERRING	
Field Name	Value	
SAP	SAP: N	
CR	'1'B	
EA_0	'0'B	
TEL	TEL: N	
EA_1	'1'B	
NR	NR	
PF	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:RR	Constraint Name:RR_URIN_R:BITERRING	
Field Name	Value	
SAP	SAP: N	
CR	'1'B	
EA_0	'0'B	
TEL	TEL: N	
EA_1	'1'B	
NR	NR	
PF	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:RR_TL	Constraint Name:RR_TL_NC(N_R: 2,3,4,5)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
NR	NR	
P_F	'0'B	
I_F	'1'C	
Comments: (2) , (3) , (4) , (5) , (6) , (7) , (8) , (9)		

PDU Constraint Declaration		
PDU Name:RR_TL	Constraint Name:RR_TL_NC(N_R: 2,3,4,5)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
NR	NR	
P_F	'0'B	
I_F	'1'C	
Comments: (2) , (3) , (4) , (5) , (6) , (7) , (8) , (9)		

EDU Constraint Declaration		
EDU Name:SABME	Constraint Name:SABME0_NC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'0'B	
Comments: (2) , (3) , (4) , (5) , (6) , (7)		

PDU Constraint Declaration		
PDU Name:SABME	Constraint Name:SABME0_UC	
Field Name	Value	
SAPI:	SAPI_N	
C_R:	'0'B	
EA_0:	'0'B	
TEI:	TEI_N	
EA_1:	'1'B	
P:	'0'B	
Comments:	(2) , (3) , (4) , (5) , (6)	

PDU Constraint Declaration		
PDU Name: SARM	Constraint Name: SARMEL_NC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
P	'0'B	
Comments: (2) , (3) , (4) , (5) , (6) , (7)		

Test passed at test page

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7)

PDU Constraint Declaration		
PDU Name:SABME	Constraint Name:SABME1 UC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7)		

PDU Constraint Declaration		
PDU Name:SABME	Constraint Name:SABME1 NC	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'1'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) , 2) , 3) Set EA_0 to 1 to indicate single octet address field, invalid frame, 4) , 5) , 6) , 7)		

PDU Constraint Declaration		
PDU Name:SABME	Constraint Name:SABME1 NC	
Field Name	Value	
SAPI	SAPI_U	
C_R	'1'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) unsupported SAPI value provided by vendor, 2) , 3) , 4) , 5) , 6) , 7)		

PDU Constraint Declaration		
PDU Name:SABME	Constraint Name:SABME1 NC(TEI_No: BITSTRING)	
Field Name	Value	
SAPI_N	SAPI_N	
'1'B	'1'B	
'0'B	'0'B	
TEI_No	TEI_No	
'1'B	'1'B	
'1'B	'1'B	
Comments:1) , 2) , 3) , 4) TEI_No <> TEI assigned for testing, 5) , 6) , 7)		

PDU Constraint Declaration		
PDU Name:SABME_FCS	Constraint Name:SABMEFCS1_NC	Value
Field Name		
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
NEW_FCS	BADFCS	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) Contains a bad FCS value for frame being transmitted, 8)		

PDU Constraint Declaration		
PDU Name:SABME_NOT	Constraint Name:SABME_NOT1_NC	Value
Field Name		
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'R	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
NEW_CF	'111111'B	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) Command field contains only 7 bits, frame will not be octet aligned, 8)		

PDU Constraint Declaration		
PDU Name:SABME_SRT	Constraint Name:SABMESRT1_NC	Value
Field Name		
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
P	'1'B	
Comments:1) SABME is one octet too short, 2) , 3) , 4) , 5)		

PDU Constraint Declaration		
PDU Name:SABME_TL	Constraint Name:SABME_TL1_NC	Value
Field Name		
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
NEW_FCS	'11'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UA0_NR	Value
Field Name		
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI_N	TEI_N	
EA_1	'1'B	
P	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UAF_NR(F:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'0'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UAF_NR	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UAF_UR	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'1'B	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

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PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UAF_NR(F:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	F	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:UA	Constraint Name:UAF_UR(F:BITSTRING)	
Field Name	Value	
SAPI	SAPI_N	
C_R	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	F	
Comments:1) , 2) , 3) , 4) , 5) , 6)		

PDU Constraint Declaration		
PDU Name:UA_TL	Constraint Name:UA_TL_NR	
Field Name	Value	
SAPI	SAPI_N	
CR	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'0'B	
I_FIELD	'1'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:UA_IL	Constraint Name:UA_IL_NR	
Field Name	Value	
SAPI	SAPI_N	
CR	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'1'B	
I_FIELD	'1'0	
Comments:1) , 2) , 3) , 4) , 5) , 6) , 7) , 8)		

PDU Constraint Declaration		
PDU Name:UI	Constraint Name:UI0_1	
Field Name	Value	
SAPI	'0'B	
CR	'0'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'0'B	
I_FIELD	SETUP	
Comments:		

PDU Constraint Declaration		
PDU Name:UT	Constraint Name:UI0_NC_NI	
Field Name	Value	
SAPI	SAPI_N	
CR	'1'B	
EA_0	'0'B	
TEI	TEI_N	
EA_1	'1'B	
F	'0'B	
I_FIELD	-	
Comments:1) , 2) N->U Command, 3) , 4) , 5) , 6) , 7) , Information Field is omitted, 8)		

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_Assign (RI_No, AI_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
C_R	'1'B
EA_0	'0'B
TEI	'111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0'B
MSG_TYPE	'0'B
AI_No	'1'B
E	'1'B
Comments: 1) 63, 2) (N->U, command), 3) 4) 127, 5) 6) 7) Information Field will contain octet string plus added zeros to equal N2011 octets, 8) A bad FCS value, 9)	

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_chk_req (TEI_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
C_R	'1'B
EA_0	'0'B
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0'B
MSG_TYPE	'0'B
AI_No	'1'B
E	'1'B
Comments: 1) 63, 2) (N->U, command), 3) 4) 127, 5) 6) 7) 8) RI_No set to the RI of ID Req, 9) 10) AI value from ID Assign received, 11) 12)	

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_Assign (RI_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
C_R	'1'B
EA_0	'0'B
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0'B
MSG_TYPE	'0'B
AI	'1'B
E	'1'B
Comments: 1) 63, 2) (N->U, command), 3) 4) 127, 5) 6) 7) 8) RI_No set to the RI of ID Req, 9) 10) TEI_N is a test suite parameter, 11) 12)	

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_chk_req (TEI_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
C_R	'1'B
EA_0	'0'B
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0'B
MSG_TYPE	'0'B
AI	'1'B
E	'1'B
Comments: 1) 63, 2) (N->U, command), 3) 4) 127, 5) 6) 7) 8) 9) 10) TEI_No	

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contains TEI # just assigned, 11) , 12)

PDU Constraint Declaration		
PDU Name: UI_Mgmt	Constraint Name: ID_chk_resp(TEI_No: BITSTRING)	
Field Name	Value	
SAPI	'111111'B	
C_R	'0'B	
EA_0	'0'B	
TEI	'1111111'B	
EA_1	'1'B	
P	'0'B	
MF_ID	'0F'O	
Ri	?	
MSG_TYPE	'05'O	
AI	TEI_No	
E	'1'B	
Comments: 1) 63 , 2) (U->N, command), 3) , 4) 127 , 5) , 6) , 7) , 8) Ri_No is newly generated Ri, 9) , 10) TEI_No contains the TEI # in ID. Assign/Check, 11) , 12)		

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PDU Constraint Declaration		
PDU Name: UI_Mgmt	Constraint Name: ID_Denied(Ri_No, TEI_No: BITSTRING)	
Field Name	Value	
SAPI	'111111'B	
C_R	'1'B	
EA_0	'0'B	
TEI	'1111111'B	
EA_1	'1'B	
P	'0'B	
MF_ID	'0F'O	
Ri	Ri_No	
MSG_TYPE	'03'O	
AI	TEI_No	
E	'1'B	
Comments: 1) 63 , 2) (N->U, command), 3) , 4) 127 , 5) , 6) , 7) , 8) Ri_No set to the Ri of ID Req, 9) , 10) TEI_N is to be denied, 11) , 12)		

PDU Constraint Declaration		
PDU Name: UI_Mgmt	Constraint Name: ID_Req	
Field Name	Value	
SAPI	'111111'B	
C_R	'0'B	
EA_0	'0'B	
TEI	'1111111'B	
EA_1	'1'B	
P	'0'B	
MF_ID	'0F'O	
Ri	?	
MSG_TYPE	'01'O	
AI	'111111'B	
E	'1'B	
Comments: 1) 63 , 2) (U->N, command), 3) , 4) 127 , 5) , 6) , 7) , 8) , 9) , 10) Any TEI value acceptable, 11) , 12)		

LAPD Conformance Testing

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_RESTRICT No: 1
Field Name	Value
SAPI	'111111'B
CR	'1'B
EA_0	'0'B
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0F'O
RI	'0'B
MSG_TYPE	'06'O
AI	TEI No
E	'1'B
Comments: 1) 63, 2) (N->U, command), 3), 4) 127, 5), 6), 7), 8), 9), 10) If TEI No=127, remove all TEIs, 11), 12)	

LAPD Conformance Testing

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: Inv_Chr_Req (CR, EA0, RI_No, AI_No: BITSTRING 1)
Field Name	Value
SAPI	'111111'B
CR	CR
EA_0	EA0
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0F'O
RI	'0'B
MSG_TYPE	'06'O
AI	AI_No
E	'1'B
Comments: 1) 63, 2) Valid CR=1, Invalid=0 N->U, 3) Valid EA0=0, Invalid=1, 4) 127, 5), 6), 7), 8), 9), 10), 11), 12)	

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: ID_Ver
Field Name	Value
SAPI	'111111'B
CR	'0'B
EA_0	'0'B
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0F'O
RI	'0'B
MSG_TYPE	'07'O
AI	?
E	'1'B
Comments: 1) 63, 2) (U->N, command), 3), 4) 127, 5), 6), 7), 8), 9), 10) AI is TEI to be checked, 11), 12)	

LAPD Conformance Testing

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: Inv_Id_Assign (CR, EA0, Ri_No, Ai_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
CR	CR
EA_0	EA0
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0F'O
Ri_No	Ri_No
MSG_TYPE	'02'O
Ai	Ai_No
E	'1'B
Comments: 1) 63, 2) Valid CR=1, Invalid=0 N->U, 3) Valid EA0=0, Invalid=1, 4) 127, 5) , 6) , 7) , 8) , 9) , 10) , 11) , 12)	

LAPD Conformance Testing

PDU Constraint Declaration	
PDU Name: UI_Mgmt	Constraint Name: Inv_Id_Denied (CR, EA0, Ri_No, Ai_No: BITSTRING)
Field Name	Value
SAPI	'111111'B
CR	CR
EA_0	EA0
TEI	'1111111'B
EA_1	'1'B
P	'0'B
ME_ID	'0F'O
Ri_No	Ri_No
MSG_TYPE	'03'O
Ai	Ai_No
E	'1'B
Comments: 1) 63, 2) Valid CR=1, Invalid=0 N->U, 3) Valid EA0=0, Invalid=1, 4) 127, 5) , 6) , 7) , 8) , 9) , 10) , 11) , 12)	

Field Name	Type	Field Name	Type
SAT	S	S	N
C	B	C	B
EA	B	EA	B
FI	N	FI	N
EA	B	EA	B
P	B	P	B
ME	D	ME	D
R1	No	R1	No
MSG	TYPE	MSG	TYPE
AI	No	AI	No
E	B	E	B

Comment: 11, 2) (N-S(1), 3), 4) ,
5), 6), 7), 8), 9) ,
10), 11), 12)

[illegible]

PDU Constraint Declaration		
PDU Name: UI_Mgmt_reslist	Constraint Name: ID_enc_reslist	
Field Name	Value	
SAPI	'111111'B	
C_R	'0'B	
EA_0	'0'B	
TEI	'111111'B	
EA_1	'1'B	
P	'0'B	
ME_ID	'0F'0	
R_i	?	
MSG_TYPE	'05'0	
TEXT	?	
Comments: 1163 , 2) (U->N), 3) , 4) 127 , 5) , 6) , 7) , 8) , 9) , 10) ID check response list of 1 or more TEI values, 11)		

PDU Name	TL	Constraint Name	U	N	V
Field Name		Value			
SAPI		SAPI_N			
C_R		'1'B			
EA_0		'1'B			
TEI		TEI_N			
EA_1		'1'B			
P		'0'B			
I_Field		'1'0			
Comments	1, 2	N->U Command, 3)			
	4), 5), 6), 7)				
	Information Field will				
	contain octetstring plus				
	added zeros to equal N201				
	octets. 8)				

PDU Constraint Declaration	
PDU Name:UNDEF	Constraint Name:UNDEF1 NC
Field Name	Value
SAPI	SAPI_N
C_R	'1','B
EA_0	'0','B
TEI	TEI_N
EA_1	'1','B
NEW_CF	'3','O
Comments: (2 , 3 , 4) , 5 , 6)	

pDU Constraint Declaration	
pDU Name:UNDEF	Constraint Name:UNDEF2 NC
Field Name	Value
SAPI:	SAPI N
CR:	'1'B
FA:	'0'B
TE:	TEI N
FA:	'1'B
NEW IF	'1'0

POP Name	Value	Constraint Name
SAP1	SAP1_N	
FA 0	FA 0	
FA 1	FA 1	
NEW CF	NEW CF	

PNJ Constraint Declaration		
PNJ Name: X10	Constraint Name: X10_UK	
Field Name	Value	
SAPI	SAPI_N	
C_N	'0'B	
EA_0	'0'B	
TUT	TUT_N	
EA_1	'1'B	
P_F	'0'B	
1 FIELD	?	
Comments: 1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

PNJ Constraint Declaration		
PNJ Name: X10	Constraint Name: X10_UK	
Field Name	Value	
SAPI	SAPI_N	
C_N	'0'B	
EA_0	'0'B	
TUT	TUT_N	
EA_1	'1'B	
P_F	'0'B	
1 FIELD	?	
Comments: 1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

X10 Constraint Declaration		
Field Name: X10	Constraint Name: X10_UK	
Field Name	Value	
SAPI	SAPI_N	
C_N	'1'B	
EA_0	'0'B	
TUT	TUT_N	
EA_1	'1'B	
P_F	'0'B	
1 FIELD	?	
Comments: 1) , 2) , 3) , 4) , 5) , 6)		
, 7) , 8)		

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execute test cases in TEI Unassigned state (1.0).

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DW10_V01				
Identifier: DW10_V01				
Purpose: Verify that the IUT a) changes to TEI Assigned state (4.0) with no response, b) sends a SABME and changes to Awaiting Establishment state (5.0), or c) sends an XID frame and changes to TEI Assigned state (4.0) in response to an ID Assigned frame with a matching Ri.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT!UI_Mgmt>				Init ID Request
#				
START Topr ?UI_Mgmt (Ri_No::=UI_Mgmt.Ri) !UI_Mgmt	L100	ID_Req ID_Assign (Ri_No)		TEI value=I EI_N
#				
START Td ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE	L101	SABME UC	(P)	P-1
?XID +DL40_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE		X.D0 UC	(P)	
+DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.2 Conditional Execution-In Preamble for TEI Unassigned state (1.0), there is a PLXIT parameter that will determine if the IUT is characterized as an Automatic-TEI device. Only Automatic-TEI devices				

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1. The first two parameters are the same as in the previous version of the program. The third parameter is the number of the state (1...10), where 1 is a PIXIT parameter that will be used to calculate the TEI if the TEI is characterized as a state. Only AUTOMATIC TEI devices are allowed to be used in the TEI Unassigned state (1,0).

.921 Ref. 5.3.5.3

Line	Address	Operation	Condition	Next	Comments
1	START: M100	LDI M100, R1			
2	START: M100	LDI M100, R1			
3	START: M100	LDI M100, R1			
4	START: M100	LDI M100, R1			
5	START: M100	LDI M100, R1			
6	START: M100	LDI M100, R1			
7	START: M100	LDI M100, R1			
8	START: M100	LDI M100, R1			
9	START: M100	LDI M100, R1			
10	START: M100	LDI M100, R1			
11	START: M100	LDI M100, R1			
12	START: M100	LDI M100, R1			
13	START: M100	LDI M100, R1			
14	START: M100	LDI M100, R1			
15	START: M100	LDI M100, R1			
16	START: M100	LDI M100, R1			
17	START: M100	LDI M100, R1			
18	START: M100	LDI M100, R1			
19	START: M100	LDI M100, R1			
20	START: M100	LDI M100, R1			
21	START: M100	LDI M100, R1			
22	START: M100	LDI M100, R1			
23	START: M100	LDI M100, R1			
24	START: M100	LDI M100, R1			
25	START: M100	LDI M100, R1			
26	START: M100	LDI M100, R1			
27	START: M100	LDI M100, R1			
28	START: M100	LDI M100, R1			
29	START: M100	LDI M100, R1			
30	START: M100	LDI M100, R1			
31	START: M100	LDI M100, R1			
32	START: M100	LDI M100, R1			
33	START: M100	LDI M100, R1			
34	START: M100	LDI M100, R1			
35	START: M100	LDI M100, R1			
36	START: M100	LDI M100, R1			
37	START: M100	LDI M100, R1			
38	START: M100	LDI M100, R1			
39	START: M100	LDI M100, R1			
40	START: M100	LDI M100, R1			
41	START: M100	LDI M100, R1			
42	START: M100	LDI M100, R1			
43	START: M100	LDI M100, R1			
44	START: M100	LDI M100, R1			
45	START: M100	LDI M100, R1			
46	START: M100	LDI M100, R1			
47	START: M100	LDI M100, R1			
48	START: M100	LDI M100, R1			
49	START: M100	LDI M100, R1			
50	START: M100	LDI M100, R1			
51	START: M100	LDI M100, R1			
52	START: M100	LDI M100, R1			
53	START: M100	LDI M100, R1			
54	START: M100	LDI M100, R1			
55	START: M100	LDI M100, R1			
56	START: M100	LDI M100, R1			
57	START: M100	LDI M100, R1			
58	START: M100	LDI M100, R1			
59	START: M100	LDI M100, R1			
60	START: M100	LDI M100, R1			
61	START: M100	LDI M100, R1			
62	START: M100	LDI M100, R1			
63	START: M100	LDI M100, R1			
64	START: M100	LDI M100, R1			
65	START: M100	LDI M100, R1			
66	START: M100	LDI M100, R1			
67	START: M100	LDI M100, R1			
68	START: M100	LDI M100, R1			
69	START: M100	LDI M100, R1			
70	START: M100	LDI M100, R1			
71	START: M100	LDI M100, R1			</

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execute test cases in TEI Unassigned state (1.0).

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM10_V04				
Identifier: DM10_V04				
Purpose: Verify that the IUT responds an ID_Request in response to a T202 timer expiry after ID_Denied sent by the tester with the Ri value matched and Ai = 127 to the first ID_Request.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT: UI_Mgmt>				
#				
START Topr ?UI_Mgmt {Ri_No::=UI_Mgmt.Ri} START T202 !UI_Mgmt	L100	ID_Req		Init ID Request
#				
?TIMEOUT T202 START T202 ?UI_Mgmt {Ri_No <>	L101	ID_Denied (Ri_No, 127)		Matching Ri/Ai 127
#UI_Mgmt.Ri}	L102	ID_Req	(P)	Different Ri
+DL_POSTAMBLE +DL10_UNEXPECTED GOTO L102 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.5.3 Conditional Execution-In Preamble for TEI Unassigned state (1.0), there is a PIXIT parameter that will determine if the IUT is characterized as an AUTOMATIC-TEI device. Only AUTOMATIC-TEI devices				

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LAPD Conformance Testing

LAPD Conformance Testing

Test Case Details			
Test Case ID	Test Case Description	Test Case Status	Test Case Category
1	START Test	100	100
2	START Test	100	100
3	START Test	100	100
4	START Test	100	100
5	START Test	100	100
6	START Test	100	100
7	START Test	100	100
8	START Test	100	100
9	START Test	100	100
10	START Test	100	100
11	START Test	100	100
12	START Test	100	100
13	START Test	100	100
14	START Test	100	100
15	START Test	100	100
16	START Test	100	100
17	START Test	100	100
18	START Test	100	100
19	START Test	100	100
20	START Test	100	100
21	START Test	100	100
22	START Test	100	100
23	START Test	100	100
24	START Test	100	100
25	START Test	100	100
26	START Test	100	100
27	START Test	100	100
28	START Test	100	100
29	START Test	100	100
30	START Test	100	100
31	START Test	100	100
32	START Test	100	100
33	START Test	100	100
34	START Test	100	100
35	START Test	100	100
36	START Test	100	100
37	START Test	100	100
38	START Test	100	100
39	START Test	100	100
40	START Test	100	100
41	START Test	100	100
42	START Test	100	100
43	START Test	100	100
44	START Test	100	100
45	START Test	100	100
46	START Test	100	100
47	START Test	100	100
48	START Test	100	100
49	START Test	100	100
50	START Test	100	100
51	START Test	100	100
52	START Test	100	100
53	START Test	100	100
54	START Test	100	100
55	START Test	100	100
56	START Test	100	100
57	START Test	100	100
58	START Test	100	100
59	START Test	100	100
60	START Test	100	100
61	START Test	100	100
62	START Test	100	100
63	START Test	100	100
64	START Test	100	100
65	START Test	100	100
66	START Test	100	100
67	START Test	100	100
68	START Test	100	100
69	START Test	100	100
70	START Test	100	100
71	START Test	100	100
72	START Test	100	100
73	START Test	100	100
74	START Test	100	100
75	START Test	100	100
76	START Test	100	100
77	START Test	100	100
78	START Test	100	100
79	START Test	100	100
80	START Test	100	100
81	START Test	100	100
82	START Test	100	100
83	START Test	100	100
84	START Test	100	100
85	START Test	100	100
86	START Test	100	100
87	START Test	100	100
88	START Test	100	100
89	START Test	100	100
90	START Test	100	100
91	START Test	100	100
92	START Test	100	100
93	START Test	100	100
94	START Test	100	100
95	START Test	100	100
96	START Test	100	100
97	START Test	100	100
98	START Test	100	100
99	START Test	100	100
100	START Test	100	100

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM10_V09				
Identifier:DM10_V09				
Purpose:Verify that the IUT does not respond to an ID_Check_Request with Ai in the Automatic Range (64 - 126) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE (Ai_No:--RANDOM(64,126)) !UI_Mgmt # START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	ID_chk_req(Ai_No)	(P) (F)	
Extended Comments:Q.921 Ref. 5.3.3.2 TEI value in Ai field is a value between 64-126.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM10_V10				
Identifier:DM10_V10				
Purpose:Verify that the IUT does not respond to an ID_Check_Request with Ai in the Non-automatic Range (0-63) in TEI Unassigned state (1.0). IUT is expected to remain in state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE (Ai_No:--RANDOM(0,63)) !UI_Mgmt # START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	ID_chk_req(Ai_No)	(P) (F)	
Extended Comments:Q.921 Ref. 5.3.3.2 TEI value in Ai field is a value between 0-63.				

Test Case: V14 - Delay on Reference: LAPD/MET/M10 V14 Label: L100 V14 Purpose: Verify that the IUT does not respond to an ID Remove with AI=127 in the Unassigned state (1,0). IUT is expected to remain in state (1,0).				
Default:				
Behaviour Description	Label	Test Data's Reference	V	Comment's
*DL105 PREAMBLE *UI Msgnt *UI Msgnt START ID *TIMEOUT ID *DL110 VERIFICATION *DL POSTABLE *DL110 UNEXPECTED GOTO L100 *OTHERWISE *DL POSTABLE	L100	AI=127 ID=127	(F)	AI=127 AI=127
Extended Comment: Q.921 Ref. 5.3.4 AI is a set to 127.				

Test Case: V14 - Delay on Reference: LAPD/MET/M10 V14 Label: L100 V14 Purpose: Verify that the IUT does not respond to an ID Remove with AI=127 in the Unassigned state (1,0). IUT is expected to remain in state (1,0).				
Default:				
Behaviour Description	Label	Test Data's Reference	V	Comment's
*DL105 PREAMBLE *AI No.: RANDOM(0,63) *UI Msgnt *UI Msgnt START ID *TIMEOUT ID *DL110 VERIFICATION *DL POSTABLE *DL110 UNEXPECTED GOTO L100 *OTHERWISE *DL POSTABLE	L100	AI=127 ID=127	(F)	AI=127 AI=127
Extended Comment: Q.921 Ref. 5.3.4 AI is a value (0 - 63).				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MCM-2010-101 Identifier: L101 Purpose: Verify that the LUF responds with a second ID Request (different RI) to an ID Check Request (with AI-127) in the Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE ->LUF?UI_Mgmt>				Request LUF to send ID Request
START Topr ?UI_Mgmt (RI No.: UI_Mgmt.RI) START T202 !UI_Mgmt	L100	ID Req (1.0)		AI set to let T202 timeout
?TIMEOUT T202	L101			
START T202 ?UI_Mgmt [RI No.>UI_Mgmt.RI]	L102	ID Req	(P)	Second ID Request, Different RI
+DL_POSTAMBLE +DL10_UNEXPECTED GOTO L102 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MCM-2010-102 Identifier: L102 Purpose: Verify that the LUF responds with a second ID Request (different RI) to an ID Remove (non-matching AI) in the Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE ->LUF?UI_Mgmt>				Request LUF to send ID Request
START Topr ?UI_Mgmt (RI No.: UI_Mgmt.RI) START T202 +ASSIGN AI	L100	ID Req		Get an unassigned TEI for AI field
?TIMEOUT T202	L101	ID Rmv (AI No)		Non-matching AI
START T202 ?UI_Mgmt (RI No.>UI_Mgmt.RI)	L102	ID Req	(P)	Second ID Request, Different RI
+DL_POSTAMBLE +DL10_UNEXPECTED GOTO L102 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.2.1				

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.3.2.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM10_I03				
Identifier:DM10_I03				
Purpose:Verify that the IUT does not respond to an ID_Check_Request (AI=127) received in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL105_PREAMBLE !UI_Mgmt		ID_chk_req (127)		AI set to 127
START T202				Let T202 timout
?TIMEOUT T202	L100		(P)	
+DL_POSTAMBLE				
+DL10 UNEXPECTED GOTO L100				
?OTHERWISE				
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.3.3.2				

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Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM10_N01				
Identifier:DM10_N01				
Purpose:Verify that the IUT resends an ID_Request in response to a T202 timer expiry caused by an UNDEFINED frame sent in response to the first ID_Request.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <!UI_Mgmt>				
START T0pr				
?UI_Mgmt (Ri_No::=UI_Mgmt.Ri)				
START T202				
!UNDEF	L100	ID_Req		Init ID Request
?TIMEOUT T202		UNDEF1_NC		Undefined frame
START T202	L101			
?UI_Mgmt (Ri_No <>	L102	ID_Req	(P)	Different Ri
+DL_POSTAMBLE				
+DL10 UNEXPECTED GOTO L102				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T202				
+DL_POSTAMBLE				
+DL10 UNEXPECTED GOTO L101				
?OTHERWISE				
+DL_POSTAMBLE				
+DL10 UNEXPECTED GOTO L100				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T0pr				
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.3.2.1				
Conditional Execution-In Preamble for TEI Unassigned state (1.0), there is a FIXIT parameter that will determine if the IUT is characterized as an AUTOMATIC-TEI device. Only AUTOMATIC-TEI devices				

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Behaviour Description	Label	Constraints Reference	V	Comments
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.3.2.1 Conditional Execution-In Preamble for TEI Unassigned state (1.0), there is a PIXIT parameter that will determine if the IUT is characterized as an AUTOMATIC-TEI device. Only AUTOMATIC-TEI devices execute test cases in TEI Unassigned state (1.0).				

Test Case Dynamic Behaviour

Reference: LAPD/MGMT/DM10_N03 Identifier: DM10_N03 Purpose: Verify that the IUT responds with a second ID_Request (different Ri#) to an ID_Assign with an invalid SAPI(62) in TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT!UI_Mgmt> # # START Topr ?UI_Mgmt (Ri_No:=UI_Mgmt.Ri) START T202 (S_N:=62,T_N:=127,ME_ID: #:= '00001111'B,MSG_TYPE:='00000010'B) # # !UI_Mgmt # # # # # # ?TIMEOUT T202 L101 START T202 ?UI_Mgmt {Ri_No<>UI #_Mgmt.Ri} # # # +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L102 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE	L100	ID_Req		Request IUT to send ID Request
		Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)		Assign the Invalid SAPI
	L101			Let T202 timeout
	L102	ID_Req	(P)	Second ID Request, Different RI
			(F)	
			(F)	
			(F)	
			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE ?TIMEOUT_T202 +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.2.1 Conditional Execution-In preamble for TEI Unassigned state (1.0), there is a PIXIT parameter that will determine if the IUT is characterized as an AUTOMATIC-TEI device. Only AUTOMATIC-TEI devices execute test cases in TEI Unassigned state (1.0).				

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM10 N04 Identifier: DM10_N04 Purpose: Verify that the IUT responds with a second ID Request (different RI) to an ID Assign with an invalid TEI(176) in TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT>UI_Mgmt> \$ \$ START_T202 ?UI_Mgmt (RI_No::UI_Mgmt.RI) (S_N::63,T_N::126,ME_ID: MSG_TYPE::'00000010'B) !UI_Mgmt \$ \$ \$ \$ \$?TIMEOUT_T202 L101 START_T202 ?UI_Mgmt (RI_No<>UI Mgmt.RI) \$ \$ \$	L100	ID_Req		Request IUT to send ID Request
+DL_POSTAMBLE +DL10_UNEXPECTED GOTO L102 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T202 +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L102	ID_Req	(P)	Assign the Invalid TEI
		Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)		Let T202 timeout
			(F)	Second ID Request, Different RI
			(F)	
			(F)	
			(F)	

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Reference	Resin composition	Label	Test method	Modulus	Comment
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2	100% E			(2)	
3	100% E			(3)	
4	100% E			(4)	
5	100% E			(5)	
6	100% E			(6)	
7	100% E			(7)	
8	100% E			(8)	
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100	100% E			(100)	

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Fig. 1

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Label	Cost State Reference	V	Comments
PREAMBLE			
START T202 (T202VA,NO-DELIA)			
START L202 (T202VA,NO-DELIA)			
TIMEOUT T202			
201 Mgmt			
+DL20 VERIFICATION			
+DL POSTAMBLE			
+DL20_UNEXPECTED			
GOTO L201			
2OTHERWISE			
+DL_POSTAMBLE			
2TIMEOUT T202			
+DL_POSTAMBLE			
+DL20_UNEXPECTED			
GOTO L200			
2OTHERWISE			
+DL_POSTAMBLE			

Extended Comment s:0.921 Ref.

Only Automatic-TEI devices can execute test cases in Assign/Awaiting TEI state (2).

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM20_V10				
Identifier:DM20_V10				
Purpose:Verify that the IUT does not respond to an ID_Check_Request with the Ai set to a non-automatic TEI value. The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt		ID_chk_req(0)		ID Chk Req with Ai=0
#				
START T201 (T201value+DELTA) ?TIMEOUT T201 +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L200 ?OTHERWISE +DL_POSTAMBLE	L200		(P)	No response
			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2 Only Automatic-TEI devices can execute test cases in Assign/Awaiting TEI state (?).				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM20_V12				
Identifier:DM20_V12				
Purpose:Verify that the IUT ignores an ID_Remove with Ai=127 received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE START T202 (T202value+DELTA) !UI_Mgmt		ID_Rmv(127)		ID Remove with Ai=127
#				
!UI_Mgmt		ID_Rmv(127)		ID Remove with Ai=127
#				
?UI_Mgmt	L200	ID_Req	(P)	ID Remove was ignored
+DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L200 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202			(F)	
			(F)	Expected ID Request not received
#				
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.3.4.1 Only Automatic-TEI devices can execute test cases in Assign/Awaiting TEI state (?).				

LAPD (Conformant Long)

Reference	Label	Condition's Reference	V	Comment's
1	DLPG PSFAMR-1			
2	START T202 (DLPGValue=419) AM			
3	ASSIGN T201			
4	T201 Mgmt	DLPGV (1), No		DL remove with 645A1's
5	T201 Mgmt	DLPGV (2), No		DL remove with 645A1's
6	T201 Mgmt	DLPGV (3)	(DL)	DL remove with 1410F10A
7	DLPG VERIFICATION			
8	DLPG POSTABLE			
9	DLPG UNEXPECTED			
10	COTO T200			
11	COTHERWIS			
12	DLPG POSTABLE		(F)	
13	TIMEOUT T202			
14	DL POSTABLE		(C)	Specified DL postable that is not used

Default:

Extended Comment's: Q.921 Ref. 5.3.3.1

Only Automation-Test reviews can execute to 2052 system in Assign Awaiting state.

General Performance Testing

Test Case Description	Test Case ID	Test Case Version	Test Case Status	Test Case Category	Test Case Sub-category	Test Case Priority	Test Case Severity	Test Case Complexity	Test Case Difficulty	Test Case Risk	Test Case Impact	Test Case Scope	Test Case Effort	Test Case Cost	Test Case Benefit	Test Case Value	Test Case ROI	Test Case NPV	Test Case IRR	Test Case Payback	Test Case NPV (2)	Test Case IRR (2)	Test Case Payback (2)	Test Case NPV (3)	Test Case IRR (3)	Test Case Payback (3)	Test Case NPV (4)	Test Case IRR (4)	Test Case Payback (4)	Test Case NPV (5)	Test Case IRR (5)	Test Case Payback (5)	Test Case NPV (6)	Test Case IRR (6)	Test Case Payback (6)	Test Case NPV (7)	Test Case IRR (7)	Test Case Payback (7)	Test Case NPV (8)	Test Case IRR (8)	Test Case Payback (8)	Test Case NPV (9)	Test Case IRR (9)	Test Case Payback (9)	Test Case NPV (10)	Test Case IRR (10)	Test Case Payback (10)	Test Case NPV (11)	Test Case IRR (11)	Test Case Payback (11)	Test Case NPV (12)	Test Case IRR (12)	Test Case Payback (12)	Test Case NPV (13)	Test Case IRR (13)	Test Case Payback (13)	Test Case NPV (14)	Test Case IRR (14)	Test Case Payback (14)	Test Case NPV (15)	Test Case IRR (15)	Test Case Payback (15)	Test Case NPV (16)	Test Case IRR (16)	Test Case Payback (16)	Test Case NPV (17)	Test Case IRR (17)	Test Case Payback (17)	Test Case NPV (18)	Test Case IRR (18)	Test Case Payback (18)	Test Case NPV (19)	Test Case IRR (19)	Test Case Payback (19)	Test Case NPV (20)	Test Case IRR (20)	Test Case Payback (20)	Test Case NPV (21)	Test Case IRR (21)	Test Case Payback (21)	Test Case NPV (22)	Test Case IRR (22)	Test Case Payback (22)	Test Case NPV (23)	Test Case IRR (23)	Test Case Payback (23)	Test Case NPV (24)	Test Case IRR (24)	Test Case Payback (24)	Test Case NPV (25)	Test Case IRR (25)	Test Case Payback (25)	Test Case NPV (26)	Test Case IRR (26)	Test Case Payback (26)	Test Case NPV (27)	Test Case IRR (27)	Test Case Payback (27)	Test Case NPV (28)	Test Case IRR (28)	Test Case Payback (28)	Test Case NPV (29)	Test Case IRR (29)	Test Case Payback (29)	Test Case NPV (30)	Test Case IRR (30)	Test Case Payback (30)	Test Case NPV (31)	Test Case IRR (31)	Test Case Payback (31)	Test Case NPV (32)	Test Case IRR (32)	Test Case Payback (32)	Test Case NPV (33)	Test Case IRR (33)	Test Case Payback (33)	Test Case NPV (34)	Test Case IRR (34)	Test Case Payback (34)	Test Case NPV (35)	Test Case IRR (35)	Test Case Payback (35)	Test Case NPV (36)	Test Case IRR (36)	Test Case Payback (36)	Test Case NPV (37)	Test Case IRR (37)	Test Case Payback (37)	Test Case NPV (38)	Test Case IRR (38)	Test Case Payback (38)	Test Case NPV (39)	Test Case IRR (39)	Test Case Payback (39)	Test Case NPV (40)	Test Case IRR (40)	Test Case Payback (40)	Test Case NPV (41)	Test Case IRR (41)	Test Case Payback (41)	Test Case NPV (42)	Test Case IRR (42)	Test Case Payback (42)	Test Case NPV (43)	Test Case IRR (43)	Test Case Payback (43)	Test Case NPV (44)	Test Case IRR (44)	Test Case Payback (44)	Test Case NPV (45)	Test Case IRR (45)	Test Case Payback (45)	Test Case NPV (46)	Test Case IRR (46)	Test Case Payback (46)	Test Case NPV (47)	Test Case IRR (47)	Test Case Payback (47)	Test Case NPV (48)	Test Case IRR (48)	Test Case Payback (48)	Test Case NPV (49)	Test Case IRR (49)	Test Case Payback (49)	Test Case NPV (50)	Test Case IRR (50)	Test Case Payback (50)	Test Case NPV (51)	Test Case IRR (51)	Test Case Payback (51)	Test Case NPV (52)	Test Case IRR (52)	Test Case Payback (52)	Test Case NPV (53)	Test Case IRR (53)	Test Case Payback (53)	Test Case NPV (54)	Test Case IRR (54)	Test Case Payback (54)	Test Case NPV (55)	Test Case IRR (55)	Test Case Payback (55)	Test Case NPV (56)	Test Case IRR (56)	Test Case Payback (56)	Test Case NPV (57)	Test Case IRR (57)	Test Case Payback (57)	Test Case NPV (58)	Test Case IRR (58)	Test Case Payback (58)	Test Case NPV (59)	Test Case IRR (59)	Test Case Payback (59)	Test Case NPV (60)	Test Case IRR (60)	Test Case Payback (60)	Test Case NPV (61)	Test Case IRR (61)	Test Case Payback (61)	Test Case NPV (62)	Test Case IRR (62)	Test Case Payback (62)	Test Case NPV (63)	Test Case IRR (63)	Test Case Payback (63)	Test Case NPV (64)	Test Case IRR (64)	Test Case Payback (64)	Test Case NPV (65)	Test Case IRR (65)	Test Case Payback (65)	Test Case NPV (66)	Test Case IRR (66)	Test Case Payback (66)	Test Case NPV (67)	Test Case IRR (67)	Test Case Payback (67)	Test Case NPV (68)	Test Case IRR (68)	Test Case Payback (68)	Test Case NPV (69)	Test Case IRR (69)	Test Case Payback (69)	Test Case NPV (70)	Test Case IRR (70)	Test Case Payback (70)	Test Case NPV (71)	Test Case IRR (71)	Test Case Payback (71)	Test Case NPV (72)	Test Case IRR (72)	Test Case Payback (72)	Test Case NPV (73)	Test Case IRR (73)	Test Case Payback (73)	Test Case NPV (74)	Test Case IRR (74)	Test Case Payback (74)	Test Case NPV (75)	Test Case IRR (75)	Test Case Payback (75)	Test Case NPV (76)	Test Case IRR (76)	Test Case Payback (76)	Test Case NPV (77)	Test Case IRR (77)	Test Case Payback (77)	Test Case NPV (78)	Test Case IRR (78)	Test Case Payback (78)	Test Case NPV (79)	Test Case IRR (79)	Test Case Payback (79)	Test Case NPV (80)	Test Case IRR (80)	Test Case Payback (80)	Test Case NPV (81)	Test Case IRR (81)	Test Case Payback (81)	Test Case NPV (82)	Test Case IRR (82)	Test Case Payback (82)	Test Case NPV (83)	Test Case IRR (83)	Test Case Payback (83)	Test Case NPV (84)	Test Case IRR (84)	Test Case Payback (84)	Test Case NPV (85)	Test Case IRR (85)	Test Case Payback (85)	Test Case NPV (86)	Test Case IRR (86)	Test Case Payback (86)	Test Case NPV (87)	Test Case IRR (87)	Test Case Payback (87)	Test Case NPV (88)	Test Case IRR (88)	Test Case Payback (88)	Test Case NPV (89)	Test Case IRR (89)	Test Case Payback (89)	Test Case NPV (90)	Test Case IRR (90)	Test Case Payback (90)	Test Case NPV (91)	Test Case IRR (91)	Test Case Payback (91)	Test Case NPV (92)	Test Case IRR (92)	Test Case Payback (92)	Test Case NPV (93)	Test Case IRR (93)	Test Case Payback (93)	Test Case NPV (94)	Test Case IRR (94)	Test Case Payback (94)	Test Case NPV (95)	Test Case IRR (95)	Test Case Payback (95)	Test Case NPV (96)	Test Case IRR (96)	Test Case Payback (96)	Test Case NPV (97)	Test Case IRR (97)	Test Case Payback (97)	Test Case NPV (98)	Test Case IRR (98)	Test Case Payback (98)	Test Case NPV (99)	Test Case IRR (99)	Test Case Payback (99)	Test Case NPV (100)	Test Case IRR (100)	Test Case Payback (100)
Test Case 1: Verify that the IUP ignores an ID Remove with the AI set to a non-automatic TEL value received in Assign Awaiting TEL state (2.																																																																																																																																																																																																																																																																																																																													

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM20_V15 Identifier: DM20_V15 Purpose: Verify that the IUT adopts the TEI contained in the AI of an ID Assigned frame when it is set to an automatic TEI value. The IUT is expected to enter the TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE +ASSIGN AI (TEI_No::=AI_No) IUT Mgmt		ID Assign AI (RI_No, AI_No)		ID Assign with valid AI
IUT_Mgmt		ID_chk_req (TEI_No)		
START T201 ?UI Mgmt	L200	ID_chk_resp (TEI_No)	(P)	IUT adopted the assigned TEI
+DL40_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L200 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE			(F)	Expected ID check req not received

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM20_I01 Identifier: DM20_I01 Purpose: Verify that the IUT does not respond to an ID Check Request with AI=127 received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE IUT_Mgmt		ID_chk_req (127)		ID Chk Req with AI=127
START T201 (T201value+DELTA) ?TIMEOUT T201 +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L200 ?OTHERWISE +DL_POSTAMBLE	L200		(P)	No response
			(F)	

Extended Comments: Q.921 Ref. 5.3.3.2
Only Automatic-TEI devices can execute test cases in Assign/Awaiting TEI state (2).

Test Case: Assigning TEL state				
<p>Set up the LAPD N-MPTM NUT</p> <p>Case 1: If the NUT is assigned with an invalid state, the NUT is assigned with the state (2,2). The NUT is expected to remain in Assigning TEL state (2,2).</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40 PREAMBLE START TEL (VAL, VAL, REQ, ID) +ASSIGN TEL (RI, NO, ID, NO) +DL40 MPTM	L200	ID denied (RI, NO, ID, NO) ID Req	(F)	ID denied while invalid ID
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000			(F)	ID denied while invalid ID
+DL40 POSTAMBLE			(F)	ID denied while invalid ID

Extended Comment: Q.921 Ref. 5.3.2

Only Automatic-TEL devices can execute test cases in Assigning TEL state (2).

Test Case: Dynamic Behaviour				
<p>Set up the LAPD N-MPTM NUT</p> <p>Case 1: If the NUT is assigned with an invalid state, the NUT is assigned with the state (2,2). The NUT is expected to remain in Assigning TEL state (2,2).</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40 PREAMBLE (RI, NO, ID, NO) +DL40 MPTM		ID Assign, A1 (6,5, A) No	(P)	Send duplicated A1
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000	L400	ID Ver	(P)	Reced ID-Merify
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000		ID Req	(P)	
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000			(F)	No Response Removes TEL
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000			(P)	Does not remove TEL
+DL40 VERIFICATION +DL40 POSTAMBLE +DL40 UNEXPECTED +DL40 L200 OTHERWISE +DL40 POSTAMBLE +TIMEOUT 1000			I	Test not run

Extended Comment: Q.921 Ref. 5.3.2

Conditional execution - This test is executed only if the LUT is an Automatic TEL (TEL AUTO). This test is not executed by the LUT that compares the TEL value in the Identity assigned message with its own value when an Identity request message is outstanding (NOT(TELECH, no IDReq). The test path is determined by the PIXIT parameter ID_VER_IMP which determines

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If the IUT implements the ID Verify management procedures.

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40 V03 Identifier: DM40 V03 Purpose: Verify that the IUT does not respond to an ID Assign with non-matching AI received in T5: Assigned state (4.0). The IUT is expected to remain in T5: Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40 PREAMBLE +ASSIGN AI +UI_Mgmt				
+START T500 +TIMEOUT T500	1400		(F)	
+DL40 VERIFICATION +DI POSTAMBLE +DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	
Extended Comment: 1400: Ref. 4.3.1 AI is a valid value (4-16) for the expected type: test.				

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40 V03 Identifier: DM40 V03 Purpose: Verify that the IUT sends a second ID Verify after receiving no response to its first ID Verify. The IUT is expected to remain in T5: Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+UNSO:UA ID VRF +DL40 PREAMBLE +UI_Mgmt		UA0_NR		Send an unsolicited UA to initiate ID Verify process
+START T500 +TIMEOUT T500	1400			Receive 1st ID Verify
+START T500 +UI_Mgmt	1400		(P)	Let T500 expire
+DL40 VERIFICATION +DI POSTAMBLE +DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	Receive second ID verify
+DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	
+DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	
+DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	
+DL40 UNEXPECTED +GO TO 1400 +UI_Mgmt			(F)	

..... and from previous pages.

Behaviour Description	Label	Associated Reference	V	Comments
START (UNSQLUA ID Ver)			?	Test not run
Extended Comments: Q.9.2.1 Ref. 9.3.2.3 Conditional Execution- Multiple TEI's must be supported to run this test.				

Test Case Dynamic Behaviour				
Reference: M11/M11/1M4p V04				
Label: L400, L401, L402, L403				
Purpose: Verify that the IUT removes a TEI after receiving no response				
Scope: ID Verify management frames sent by the IUT. The IUT should remove the TEI and enter TEI Unassigned state (1.0).				
Details:				
Behaviour Description	Label	Constraints Reference	V	Comments
UNSQLUA_ID_VER				
+DL40_PREAMBLE				
UUA				
START Id				
?UI Mgmt				
START T202				
?TIMEOUT T202	L400	ID Ver		Send an unsolicited UA to initiate ID Verify procedure
START T202	L401			Receive 1st ID Verify
?UI Mgmt				Let T202 expire
START T202	L402	ID Ver	(P)	Receive second ID Verify
?TIMEOUT T202	L403		(P)	TEI is removed
+DL40_VERIFICATION				
+DL POSTAMBLE				
?UI Mgmt				
+DL40_VERIFICATION				
+DL POSTAMBLE				
+DL40_UNEXPECTED GOTO L403 OTHERWISE		ID_Req	(P)	TEI is removed and attempt to reassign
			(P)	

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE +DL40_UNEXPECTED GOTO L402 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L401 ?OTHERWISE +DL_POSTAMBLE GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEL_AUTO)]			(F) (F) (F)	 Test not run

#

Extended Comments: Q.971 Ref. 5.3.5.3

Conditional Execution - This test is executed only under the following conditions -

- 1) The IUT is an automatic TEI device.
- 2) The IUT responds to an unsolicited UA with ID Verify procedures

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM40_V05				
Identifier:DM40_V05				
Purpose:Verify that the IUT sends an ID_Check Response in response to a ID_Check_Request with the Ai value matched received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !IUT_Mgmt		ID_chk_req (TEI_N)		AI matches IUT's TEI
START T201 ?UI_Mgmt	L400	ID_chk_resp (TEI_N)	(P)	Same AI expected in response
+DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400			(F)	
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE			(F)	

Extended Comments:Q.921 Ref. 5.3.3.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MCMT/PM43_V01 Identifier: PM43_V01				
Purpose: Verify that the IUT sends an ID Check Response in response to a ID Check Request with the TEI = 127 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40 PREAMBLE ?UI Mgmt		ID chk req (127)		TEI value set to 127
START T201 ?UI Mgmt	L400	ID chk resp (TEI_N)	(P)	
+DL40 VERIFICATION +DL POSTAMBLE GOTO L400 ?OTHERWISE +DL POSTAMBLE ?TIMEOUT T201 +DL POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.3.3.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MCMT/PM43_V01 Identifier: PM43_V01				
Purpose: Verify that the IUT sends an ID Check Response in response to a ID Check Request (A) matching). The ID Check Request was prompted by an ID Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(UNSO) UA ID VER) +DL40 PREAMBLE ?UI Mgmt		UA0 NR		Send UA P=0
START Td ?UI Mgmt	L400	ID Ver		Recv'd ID Verify
?UI Mgmt		ID chk req (TEI_N)		Send ID Check Req
START T201 ?UI Mgmt	L401	ID chk resp (TEI_N)	(P)	
+DL40 VERIFICATION +DL POSTAMBLE +DL40 UNEXPECTED GOTO L401 ?OTHERWISE +DL POSTAMBLE ?TIMEOUT T201 +DL POSTAMBLE +DL40 UNEXPECTED GOTO L400 ?OTHERWISE +DL POSTAMBLE ?TIMEOUT Td +DL POSTAMBLE [NOT (UNSO) UA ID VER)]			(F)	No response
			(F)	No response
			(F)	No response
			(F)	No response
			I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID_VERIFY procedures.				

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Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40_V08				
Identifier: DM40_V08				
Purpose: Verify that the IUT sends an ID_Check Response in response to a ID_Check Request (Tel 127). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Tel Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
UNSOLUA_ID_VER +DL40_PREAMBLE (FLAG::=FALSE)				
#				
#				
#				
#				
#				
START T3 +UI_Mgmt +UI_Mgmt	L40	+UI_Ver ID_chk_req (127)		Assume no response Send an unsolicited UA to the IUT Verify that the IUT responds
#				
START T4 +UI_Mgmt_respond +UI_Mgmt_respond	L40	ID_chk_req (127)		Assume no response Send an unsolicited UA to the IUT Verify that the IUT responds
# (FLAG::=IPUE)				
GOTO L401 +DL40_UNEXPECTED GOTO L401 +DL40_UNEXPECTED +DL_POSTAMBLE (FLAG=TRUE)			(F)	
#				
#				
+DL40_VERIFICATION +DL_POSTAMBLE FLAG=TRUE +DL_POSTAMBLE				
+DL40_UNEXPECTED GOTO L400 +DL40_UNEXPECTED +DL_POSTAMBLE			(F)	
#				
#				

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Behaviour Description	Label	Constraints Reference	V	Comments
?TIMEOUT T4 +DL_POSTAMBLE (NOT(UNSOLUA_ID_VER))			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 (1) Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID_Verify procedures.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40_V10				
Identifier: DM40_V10				
Purpose: Verify that the IUT sends an ID_Verify in response to a ID_Check Request (TEI=127). The IUT's TEI value is NOT in the list of AI values specified in request). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSO_LUA_ID_VER] +DL40_PREAMBLE +UA		UAC_NR		Send an unsolicited UA to initiate ID_Verify by the IUT.
START ID ?UI_Mgmt +ASSIGN AI	L400	ID_Ver		Get two unassigned TEI values, the AI value of the ID assigned to the IUT.
?UI_Mgmt_reqst		ID_clk_reqst (AI_Nr, AI_Num)		Check Req Assigned TEI Nr. in list
START T201 ?UI_Mgmt	L400	ID_Ver	(P)	IUT sends ID_VERIFY
+DL40_ID_VERIFICATION +DL POSTAMBLE +DL40_UNEXPECTED GOTO L401 ?OTHERWISE +DL POSTAMBLE ?TIMEOUT T201 +DL POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE			(F)	No response
			(F)	
			(F)	

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL POSTAMBLE ?TIMEOUT Td +DL POSTAMBLE [NOT (UNSO_LUA_ID_VER)]			(F)	No response
#			I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 Conditional Execution - The test execution depends on whether the IUT responds to an unsolicited UA with ID_Verify procedures.				

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40_V11				
Identifier: DM40_V11				
Purpose: Verify that the IUT does not respond to an ID_Remove with TEI value = 127 received in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE (AI_Nr :: 127)				Set AI to 127
?UI_Mgmt START Id ?TIMEOUT Td +DL10_VERIFICATION +DL POSTAMBLE ?UI_Mgmt +DL10_VERIFICATION +DL POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL POSTAMBLE	L400	ID_Rmv (AI_Nr)	(P)	
		ID_Req	(P)	
			(F)	

Extended Comments: Q.921 Ref. 5.3.4

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEL_AUTO)]			I	Test not run
<p>Extended Comments: Q.921 Ref. 5.8.7</p> <p>Conditional Execution - The test execution path which the IUT will take is based on whether:</p> <ol style="list-style-type: none"> 1) The IUT is an automatic TEL device. 2) The IUT responds to an unsolicited UA with ID Verify procedures. If the IUT does send the ID Verify, this test will respond with the ID Check Request management frame (i.e. the ID VERIFICATION) to ensure that the IUT does not resend the ID Verify. 3) The IUT is a non-automatic TEL device and does not implement ID Verify Response to UA. 				

Test Case Dynamic Behaviour				
<p>Reference: LAPD-MMT/DM40_V14</p> <p>Identifier: DM40_V14</p> <p>Purpose: Verify that the IUT sends an ID Verify or Removes TEL in response to a UA(F=0) received in TEL Assigned state (4.0). The IUT is expected to remain in TEL Assigned state (4.0) or, when TEL is removed, enter TEL Unassigned state (1.0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER OR TEL_AUTO] +DL40_PREAMBLE [UA		UA0_NR		Send an unsolicited UA to initiate ID Verify procedure
START_Tg [UNSOLUA_ID_VER] ?UI_Mgmt +DL40_ID_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Tg +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER) AND !(TEL_AUTO)]	L400	ID_Ver	(P)	Receive ID_Verify
?TIMEOUT_Td +DL10_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L401 ?UI_Mgmt	L401		(P)	No response
+DL20_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		ID_Req	(P)	IUT has removed TEL and requesting ID
			(F)	

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
1. NOT UNSOLIA ID V:R OR TEI AUTO?			1	Test not req.
Extended Comments:Q.921 Ref. 5.3.2 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device, 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify Response to UA.				

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM40_101 Identifier:DM40_101 Purpose:Verify that the IUT does not respond to an ID Denied with AI 127 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE ?IUT_Mgmt START TD ?TIMEOUT_Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	ID_Denied(63, 127)	(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.3.2				

LAPD Conformance Testing

..... Case Dynamic Behaviour

Reference:LAPD/MGMT/DM40_101 Identifier:DM40_101 Purpose:Verify that the IUT does not respond to an ID Check Request with non-matching TEI received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+L40_PREAMBLE +ASSIGN TEI ?IUT_Mgmt START TD ?TIMEOUT_Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	ID_chk_req(AI No)	(P)	Get unassigned TEI for AI field
			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2 TEI value is a valid value not equal to the TEI value under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DW40_I04 Identifier: DW40_I04 Purpose: Verify that the IUT does not respond to an ID Remove with non-matching AI received in TFI Assigned state (4.0). The IUT is expected to remain in TFI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
-DI40_PREMABLE +ASSIGN_AI IUT_Mgmt START TO ?TIMEOUT TO +DI40_VERIFICATION +UL POSTABLE +DI40_UNEXPECTED GOTO L400 OTHERWISE -UL POSTABLE	L400	ID ReviAI Not	(P)	Get an unassigned TFI for the AI file AS AI <> TFI N , AI value Data not set AI
Extended Comments: Q.921 Ref. 3.3.4 AI is a value 64-126: for the main() for the under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM40_N01				
Identif: IdentDM40_N01				
Purpose: Verify that the IUT does not respond to an ID Check Request with an invalid management entity identifier received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
*DL40_PREAMBLE (S N:="63", T N:="12", ME_ID:="00000100", B)				Assign the Invalid Mgmt Identifier
*IUT Mgmt START To *DL40_VERIFICATION *DL40_POSTamble *DL40_UNEXPECTED *GO TO L400 OTHERWISE *DL40_POSTamble	1400	Invalid Mgmt (S N, T N, ME_ID, 0, MSG_TYPE, TEI_N)	(P)	
			(F)	

API Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/Mgmt/DM40 N03	Behaviour Description	Label	Constraints Reference	V
Identifier: DM40 N03 Purpose: Verify that the IUP does not respond to an ID Check Request with an invalid TEL address (126) received in TEL Assigned state (4,0). The IUP is expected to remain in TEL Assigned state (4,0). Default:	+DL40 PREAMBLE (S N: - 63, T N: - 126, ME ID: - 000001111'B, MSG TYPE: - 00000100'B) +IUI Mgmt # # # # # #			
	START Td ?TIMEOUT Td +DL40 VERIFICATION +DL POSTAMBLE +DL40 UNEXPECTED GOTO L400 ?OTHERWISE +DL POSTAMBLE	L400	Invalid Mgmt (S N, T N, ME ID, 0, MSG TYPE, TEL N)	(P)
				(F)

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAPD/MGMT/DW50_V01					
Identifier: DW50_V01					
Purpose: Verify that an Automatic TEI either 1) sends an ID_Verify, or 2) removes the TEI in response to an ID_Assign (with Ai duplicated) in Awaiting Establishment state (5.0). Default:					
#	Behaviour Description	Label	Constraints Reference	V	Comments
#	{TEI_AUTO AND TEIchk_no_IDReq} +DL50_PREAMBLE (Ai_No.:=TEI_N) !IUI_Mgmt START Td ?UI_Mgmt +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE [NOT(TEI_AUTO AND TEIchk_no_IDReq)]	L500	ID_Assign_Ai (63,Ai_No) ID_Ver	(P) (P)	Send duplicated Ai Rec'd ID-Verify
#				(F)	No Response Removes TEI
#				I	Test not run

Extended Comments: 0.921 Ref. 5.3.2
Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). This test is not executed by the IUT that compares the TEI value in the Identity assigned message with its own only when the Identity Request message is outstanding [NOT(TEIchk_no_IDReq)]. The test path is determined by the PIXIT parameter ID_VER_IMP which determines if the IUT implements the ID_Verify management procedures.

	Test Case Description	Label	Constraints Reference	V	Comments
#	UN_OLWA_ID_Verify +L50_PREAMBLE	L500	UAW_NIK		Send an unsolicited UA to initiate ID_Verification procedure
#	START T3 ?UI_Mgmt	L501	ID_Ver	(P)	Receive 1st ID_Verify
#	START T202 ?TIMEOUT_T202	L502	ID_Ver	(F)	Let T202 expire
#	+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L502 ?OTHERWISE ?TIMEOUT_T202 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE ?TIMEOUT_T3 +DL_POSTAMBLE			(F) (F) (F) (F) (F)	Receive second ID verify

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Behaviour Description	Label	Constraints Reference	V	Comments
# [NOT(UNSOLUA_ID_VER)]			I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.3 Conditional Execution- Multiple TEI's must be supported to run this test.				

Test Case Dynamic Behaviour

Reference: LAPD/MGMT/DM50_V04

Identifier: DM50_V04

Purpose: Verify that the IUT removes a TEI after receiving no response to two ID_Verify management frames sent by the IUT. The IUT is expected to remove its TEI and enter TEI Unassigned state (1.0).

Default:

Behaviour Description	Label	Constraints Reference	V	Comments
{UNSOLUA_ID_VER} +DL50_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START TD ?UI_Mgmt	L500	ID_Ver		Receive 1st ID_Verify
START T202 ?TIMEOUT T202	L501			Let T202 expire
START T202 ?UI_Mgmt	L502	ID_Ver	(P)	Receive second ID_Verify
START TD ?TIMEOUT TD	L503		(P)	TEI is removed
#+DL10_VERIFICATION				
#+DL_POSTAMBLE ?UI_Mgmt		ID_Req	(P)	TEI is removed and attempt to reassign
#+DL10_VERIFICATION				
#+DL_POSTAMBLE +DL50_UNEXPECTED GOTO L503				

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T0 +DL_POSTAMBLE [NOT (UNSOLUA_ID_VER OR TEL_AUTO)] #			(F) (F) (F) (F) (F) (F) I	Test not run
Extended Comments:Q.921 Ref. 5.3.5.3 Conditional Execution - This test is executed only under the following conditions - 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures.				

LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE # START T201 ?01_Mgmt # # +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE	L500	ID_chk_req (TEI_N) ID_chk_resp (TEI_N)	(F) (F) (F)	AI matches IUT's TEI Same AI expected in response
Extended Comments:Q.921 Ref. 5.3.3.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM50_V06				
Identifier:DM50_V06				
Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request with the TEI value = 127 in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !UI_Mgmt		ID_chk_req (127)		TEI value = 127
# START T201 ?UI_Mgmt	L500	ID_chk_resp (TEI_N)	(P)	
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.3.3.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM50_V07				
Identifier:DM50_V07				
Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request (Ai matching). The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(UNSOLUA_ID_VER) +DL50_PREAMBLE !UA START Td ?UI_Mgmt	L500	UA0_NR ID_Ver ID_chk_req (TEI_N)		Send UA F=0 Rcv'd ID Verify Send ID Check Req
# !UI_Mgmt START T201 ?UI_Mgmt +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(UNSOLUA_ID_VER))	L501	ID_chk_resp (TEI_N)	(P)	
#			(F)	No response
#			(F)	No response
#			(F)	No response
#			I	Test not run
Extended Comments:Q.921 Ref. 5.3.5.2 Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID_VERIFY procedures .				

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Test Case Dynamic Behaviour					
Reference:LAPD/MGMT/DM50_V09					
Identifier:DM50_V09					
Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check Request. The IUT's TEI value is within the list of AI values specified in request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Awaiting Establishment state (5.0).					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[UNSOLUA_ID_VER]				
#	+DL50_PREAMBLE				
#	!UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
#					
#	START Td	L500	ID_Ver		Get an unassigned TEI for the AI list in ID Check Req
#	?UI_Mgmt				Assigned TEI is in the AI list
#	+ASSIGN_AI				
#	!UI_Mgmt_reqlist		ID_chk_reqlist (AI_No,TEI_N)		
#				(P)	
#	START T201	L501	ID_chk_resp (TEI_N)		
#	?UI_Mgmt				
#	+DL50_VERIFICATION				
#	+DL_POSTAMBLE				
#	+DL50_UNEXPECTED			(F)	
#	GOTO L501				
#	?OTHERWISE				
#	+DL_POSTAMBLE				
#	?TIMEOUT T201			(F)	No response
#	+DL_POSTAMBLE				
#	+DL50_UNEXPECTED				
#	GOTO L500				
#	?OTHERWISE				
#	+DL_POSTAMBLE			(F)	

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Test Case Dynamic Behaviour				
Reference: LAPD_MGMT_PREAM_V10				
Identifier: DMS0_V10				
Purpose: Verify that the IUT sends an ID_Verify in response to a ID_Check Request. The IUT's TEI value is not within the list of AI values specified in request. The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Awaiting Establishment state (%0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER] +DL50_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START TD ?UI_Mgmt +ASSIGN_AI	L500	ID_Ver		Get two unassigned TEIs for AI list in ID Check Req Assigned
!UI_Mgmt_reqlst		ID_chk_reqlst (Ai_No, Ai_Num)		TEI NOT in the AI list
START T201 ?UI_Mgmt	L501	ID_Ver	(P)	
#DL50_ID_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD			(F)	No response

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE [NOT(UNSOLUA_ID_VER)]			I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 Conditional Execution The test execution depends on whether the IUT responds to an unsolicited UA with ID_Verify procedures.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM50_V11				
Identifier: DM50_V11				
Purpose: Verify that the IUT removes its TEI in response to an ID Remove with TEI value 127 in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL50_PREAMBLE (Ai_No:=127) !UI_Mgmt START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL20_VERIFICATION +DL_POSTAMBLE ?SABME	L500	ID_Rmv(Ai_N=)	(P)	Set Ai=127
		ID_Req	(P)	
		SABME_UC		P=1, IUT's T200 expired
#				
#				
GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM50_V12				
Identifier: DM50_V12				
Purpose: Verify that the IUT removes its TEI in response to an ID Remove with AI value = IUT's TEI value in Awaiting Establishment state (5.0). The IUT is expected to enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL50_PREAMBLE !UI_Mgmt START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL20_VERIFICATION +DL_POSTAMBLE ?SABME	L500	ID_Rmv(TEI_N)	(P)	Remove the assigned TEI
		ID_Req	(P)	
		SABME_UC		P=1, IUT's T200 expired
#				
#				
GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). Allow for SABME due to expiry of IUT's T200.				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/M3MF/DM50_V13				
Identifier: DM50_V13				
Purpose: Verify that the IUP either 1) sends an ID_Verify, 2) removes its TEI, or 3) does not respond, to a timeout of T200 N200 times in the Awaiting Establishment state (5.0). The IUP is expected to be in either Awaiting Establishment state (5.0), TEI Unassigned state (1.0), or TEI Assigned state (4.0), respectively.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE (RC:=0)				
#	L500			No retransmission yet
[RC<N200] START Td ?SABME(RC:=RC+1) GOTO L500 +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [RC=N200] START Td [ACT_ON_GH_MDL_ERR] [TEL_AUTO] ?UI_Mgmt	L501	SABME1_UC		P-1 retransmission
#			(F)	
#	L502	ID_Ver	(P)	Sends ID Verify
+DL40_ID_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt		ID_Req	(P)	Request a new TEI
+DL20_VERIFICATION +DL_POSTAMBLE ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L502 ?OTHERWISE +DL_POSTAMBLE			(P)	Removes TEI
#			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(TEL_AUTO)] ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT Td [STABLE_IN_S1] +DL_POSTAMBLE [NOT(STABLE_IN_S1)] +DL40_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L504 ?OTHERWISE +DL_POSTAMBLE [NOT(ACT_ON_GH_MDL_ERR)] ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L503 ?OTHERWISE +DL_POSTAMBLE	L504	SABME1_UC	(P)	Reassigned TEI
#			(P)	TEI Removed
#			(P)	TEI reassigned
#	L503		(F)	Does not respond
#		SABME1_UC	(P)	re-est link
Extended Comments: Q.921 Ref. 5.5.3.2 and Table II-1 of Appendix II. The expected behavior depends on the way the IUP acts on the MDL-ERROR (G) or (H).				
#			(P)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW50_V14 Identifier:DW50_V14 Purpose:Verify that the IUT sends an ID_Verify or removes a TEI in response to an unsolicited UA(F=0) in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER OR TEI_AUTO] +DL50_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START Td [UNSOLUA_ID_VER] ?SABME	L500	SABME1_UC		IUT T200 has expired
GOTO L500 ?UI_Mgmt +DL50_ID_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [(NOT(UNSOLUA_ID_VER)) AND # (TEI_AUTO)]		ID_Ver	(P)	
?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?SABME	L501		(F)	No response
GOTO L501 +DL50_UNEXPECTED GOTO L501 ?UI_Mgmt		SABME1_UC	(P)	IUT T200 has expired
		ID_Reg	(P)	IUT has

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)]			(F)	removed TEI and requesting ID
Extended Comments:Q.921 Ref. 5.8.7 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check Request management frame (in the _ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.			I	Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Relation to LAMP_MGMT/DM50_V17					
Identified DM50_V17					
Purpose: Verify that an IUT supporting automatic TEL assignment, enters 'TEL threatened' state, and either sends an IUT Request or sends a failure, in response to an ID Remove (AI=100's TEL value) received in 'Awaiting Establishment' state ('S.O').					
Test order:					
#	Behaviour Description	Label	Constraints Reference	V	Comments
	[TEL_AUTO] +DL50_1REASBLE IUT_Mgmt IUT_Mgmt :START Td IUT_Mgmt +DL50_POSTAMBLE ?RR GOTO L500 +DL50_UNEXPECTED GOTO L500 ?TIMEOUT Td +DL10_VERIFICATION +DL50_POSTAMBLE ?OTHERWISE +DL50_POSTAMBLE [NOT (TEL_AUTO)]	L500	ID_Remove (TEL_No)) ID_Remove RRL_UC (V_R)	(P) (P) (F)	I Test not run
#					

Extended Comments: Q.921 Ref. 5.3.4

Conditional execution - This test is executed only if the IUT is an Automatic TEL (TEL_AUTO).

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW50_I01				
Identifier:DW50_I01				
Purpose:Verify that the IUT does not respond to an ID_Denied with Ai = 127 received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !UI_Mgmt				
#		ID_Denied (Ri_No, 127)		
#	L500	SABMEL_UC	(P)	P=1, IUT's T200 expire d
#				
+DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.3.2 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW50_I03				
Identifier:DW50_I03				
Purpose:Verify that the IUT does not respond to an ID_Check_Request with non-matching TEI received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE +ASSIGN_TEI				
#		ID_chk_req (TEI_No)		Assign TEI not in use
#				
+UI_Mgmt START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	SABMEL_UC	(P)	P=1, IUT's T200 expire d
#				
#				
+DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2 TEI value is a valid value not equal to the TEI value under test. Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM50_T04 Identifier: DM50_104 Purpose: Verify that the IUT does not respond to an ID_Remove with non matching Ai received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE +ASSIGN_AI # # !UI_Mgmt START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	ID_Rmv(Ai_No) SABME1_UC	(P) (F) (F) (F)	Get an unused TEI Ai <> TEI_N , Ai valid P=1, IUT's T200 expire d
Extended Comments: Q.921 Ref. 5.3.4 Ai is a valid value (64-126) but not equal to TEI under test. Allow for SABME due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

0567

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM50_N01 Identifier: DM50_N01 Purpose: Verify that the IUT does not respond to an ID_Check_Request with an invalid management identifier received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE (S_N: := 63, T_N: := 127, ME_ID: := # 11110000'B, MSG_TYPE: := '00000100'B) # # !UI_Mgmt # # # # # START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	Invalid_Mgmt (S_N, T_N, ME_ID, 0, MSG_TYPE, TEI_N) SABME1_UC	(P) (F) (F) (F)	Assign the invalid Management Identifier P=1, IUT's T200 expire d
Extended Comments: Q.921 Ref. 5.3.3.2 Allow for SABME due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

0568

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/NGMT/FM50_N03 Identifier:DM50_N03					
Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid TEI address (126) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	+DL50_PREAMBLE				
#	(S_N:=63,T_N:=126,ME_ID::				
#	'00001111'B,MSG_TYPE:='00000100'B)				
#	!UI_Mgmt		Invalid_Mgmt (S_N,T_N, ME_ID_0, MSG_TYPE, TEI_N)		Assign the invalid TEI Address
#		L500	SABME1_UC	(P)	P=1,IUT's T200 expire d
#	START T200 (T200value DELTA) ?TIMEOUT T200 START T200 ?SABME				
#	+DL50_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE			(F) (F) (F)	

Extended Comments:Q.921 Ref. 5.3.3.2
 Allow for SABME due to expiry of the IUT's T200

1. API (Conformance) Testing

#	Behaviour Description	Label	Constraint Reference	V	Comments
#	<p>[TEI_AUTO AND Teichk_no_IDReq] +DL60_PREAMBLE (AI_NO::TEI_N) !UI_Mgmt</p>				
#	<p>START TD ?UI_Mgmt +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL10_VERIFICATION +DL_POSTAMBLE [NOT(TEI_AUTO AND Teichk_no_IDReq)]</p>	L600	ID_Assign AI (63,AI_No) ID_Ver	(P) (F) (P) I	Send duplicated AI Rec'd ID-Verify No Response Removes TEI Test not run

Extended Comments: 0.921 Ref. 5.3.2

Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). This test is not executed by the IUT that compares the TEI value in the Identity assigned message with its own only when an Identity Request message is outstanding [NOT(TEICHK_NO_IDREQ)]. The test path is determined by the FIXIT parameter ID_VER_IMP which determines if the IUT implements the ID_Verify management procedures.

Extended Comments:Q.921 Ref. 5.3.2

Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). This test is not executed by the IUT that compares the TEI value in the Identity assigned message with its own only when an Identity Request message is outstanding (NOT(TEIchk_no_IDReq)). The test path is determined by the PIXIT parameter ID_VPR_IMP which determines if the IUT implements the ID_Verify management procedures.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM60_V02 Identifier: DM60_V02 Purpose: Verify that the IUT does not respond to an ID.Assign with nonmatching Ai received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
# +DL60_PREAMBLE # +ASSIGN_AI # !UI_Mgmt START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	ID_Assign_Ai (63, Ai_No)	(P)	Get an unused TEI Ai<>TEI, Ai valid
+DL60_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE		DISC1_UC	(F)	P-1, IUT's T200 expired
			(F)	
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.3.2
 Ai is a valid value (64 - 126) but not equal to the TEI under test.
 Allow for DISC due to expiry of the IUT's T200.

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW60_V03				
Identifier:DW60_V03				
Purpose:Verify that the IUT sends a second ID_Verify after receiving no response to its first ID_Verify. The IUT is expected to remain in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSQLUA_ID_VER] +DL60_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedure
START Td ?UI_Mgmt	L600	ID_Ver		Receive 1st ID_Verify
START T202 ?TIMEOUT T202	L601			Let T202 expire
START T202 ?UI_Mgmt	L602	ID_Ver	(P)	Receive second ID_Verify
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L602 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE			(F) (F) (F) (F) (F) (F) (F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(UNSOLOA_ID_VER)]			1	Test not run
Extended Comments: Q.921 Ref. 5.3.6.3 Conditional Execution: Multiple TEI's must be supported to run this test.				

Test Case Dynamic Behaviour

References: LAPD/Mgmt/DM60_V04 Identified: DM60_V04 Purpose: Verify that the IUT removes a TEI after receiving no response to two ID Verify management frames. The IUT is expected to remove the TEI and enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLOA_ID_VER] +DL60_PREAMBLE !UA		UA0_Nr		Send an unsolicited UA to initiate ID_Verify procedure
START Td ?UI_Mgmt	L600	ID_Ver		Receive 1st ID_Verify
START T202 ?TIMEOUT T202	L601			Let T202 expire
START T202 ?UI_Mgmt	L602	ID_Ver	(P)	Receive second ID_Verify
START Td ?TIMEOUT Td	L603		(P)	TEI is removed
#+DL10_VERIFICATION				
#+DL_POSTAMBLE				
#				
#				
#+DL10_VERIFICATION				
#+DL_POSTAMBLE				
+DL60_UNEXPECTED GOTO L603 ?OTHERWISE		ID_Req	(P)	TEI is removed and attempt to reassign
			(F)	

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE +DL60_UNEXPECTED GOTO L602 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)] #			(F) (F) (F) (F) (F) I	Test not run
Extended Comments:Q.921 Ref. 5.3.5.3 Conditional Execution - This test is executed only under the following conditions - 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures.				

LAPD Conformance Testing

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Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM60_V05 Identifier:DM60_V05 Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request with the Ai value matched received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !UI_Mgmt START T201 ?UI_Mgmt # # # +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE	L600	ID_chk_req (TEI_N) ID_chk_resp (TEI_N)	(P) (F) (F)	AI matches IUT's TEI Same Ai expected in response
Extended Comments:Q.921 Ref. 5.3.3.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: ETSI TS 102 221 V17.0.0				
<p>When the IUT receives an ID Check Request, it responds to the IUT with an ID Check Response. The ID Check Request is received by the IUT. The IUT is expected to remain in the Awaiting Release state (6.0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL60_PREAMBLE				
!UI_Mgmt				
START T201				
?UI_Mgmt	L600	ID_chk_req (127)	(F)	TEI value set to 127
		ID_chk_resp (TEI_N)		Same as expected in response
+DL60_VERIFICATION				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T201				
+DL_POSTAMBLE				

Extended Comments: O.921 Ref. 5.3.3.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: ETSI TS 102 221 V17.0.0				
<p>When the IUT receives an ID Check Request, it responds to the IUT with an ID Check Response. The ID Check Request is received by the IUT. The IUT is expected to remain in the Awaiting Release state (6.0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
[UNSOLUA_ID_VER]				
+DL60_PREAMBLE				
!UI				
START Td				
?UI_Mgmt	L600	UA0_NR		Send UA F-0
!UI_Mgmt		ID_Ver		Rcv'd ID
		ID_chk_req (TEI_N)		Verify
START T201				Send ID
?UI_Mgmt	L601	ID_chk_resp (TEI_N)	(F)	Check Req
+DL60_VERIFICATION				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L601				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T201				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT Td				
+DL_POSTAMBLE				
[NOT(UNSOLUA_ID_VER)]				
#			I	Test not run

Extended Comments: O.921 Ref. 5.3.5.2

Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID_VERIFY procedures.

The figure consists of 18 small rectangular panels arranged in two columns of nine. Each panel shows a different stage of embryonic development:

- Panel 1 (top left):** A single-cell zygote.
- Panels 2-4:** Cleavage stages showing two-cell and four-cell embryos.
- Panels 5-7:** Morula stage, where cells are tightly packed into a sphere.
- Panels 8-9:** Gastrulation stage, showing the formation of distinct germ layers.
- Panels 10-11:** Early larval stages with visible internal structures like the yolk sac.
- Panels 12-13:** More developed larvae with prominent head and tail regions.
- Panels 14-15:** Larvae showing further growth and differentiation of organs.
- Panels 16-18 (bottom right):** Hatched larvae, fully formed and ready to move.

Reference: LAPP MCMC V(0)

$$T_{\mu\nu} = T_{\mu\nu}^{(M)} + T_{\mu\nu}^{(m)}$$

Purpose: Verify that the IUP sends an ID_Check response in response to a ID_Check Request. The IUP's TTL value is within the list of AI values specified in request. The ID_Check Request was prompted by an ID_Verify sent by the IUP. The IUP is expected to remain in Awaiting Release state (6,0).

Det.ult:

Behaviour Description	Label	Const File Reference	V	Comments
[UNSQLUA_ID_VER] +DL60_PREAMBLE !UA		UA0_NR		Start an unsolicited UA to initiate ID Verification procedure
START TD ?UI_Mgmt +ASSIGN_AI	L600	ID_Ver		Get an unassigned TEL for the AI list of ID Check Req
!UI_Mgmt_req1st		ID_chk_req1st {Ai_No,TEL_N}		Assigned TEL is in the AI list
START T201 ?UI_Mgmt	L601	ID_chk_resp (TEL_N)	(F)	
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE +TIMEOUT T201 +DL_POSTAMBLE			(F)	
+DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE			(F)	No response

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Behaviour Description	Label	Constraint Reference	V	Comment
"TIMEOUT" + DL_POSTABLES [NOT(UNESOLUA_ID_VERY)]			(F)	No response
#			I	Test not run

Extended Comment: 3.0, 4.21 Ref. 3, 3.5, 2
 Conditional Execution The test execution depends on whether the IUT responds to an unsolicited UA with ID_Verify procedures.

[illegible]

Q. 921 Ref. 5, 3, 5, 2 Conditional Execution The test execution depends on whether the IUT responds to an unsolicited DA with ID_Verify procedures.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM60_V10 Identifier: DM60_V10 Purpose: Verify that the IUT sends an ID_Verify in response to a ID_Check Request. The IUT's TEI value is NOT within the AI list in the request). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER] +DL60_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START T3 ?UI_Mgmt +ASSIGN_AI	L600	ID_Ver		Get two unassigned TEIs for AI list in ID Check Req Assigned TEI NOT in the AI list
!UT_Mgmt_reqlst		ID_chk_reqlst (Ai_No,Ai_Num)		
START T201 ?UI_Mgmt	L601	ID_chk_resp (TEI_N)	(P)	
#DL60_ID_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE			(F) (F) (F) (F)	No response

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
?TIMEOUT T3 +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER)] #			(F) I	No response Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 Conditional Execution - The test execution depends on whether the IUT responds to an unsolicited UA with ID_Verify procedures .				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MGMT.DM60_V1.1				
Identify: DM60_V1.1				
Purpose: Verify that the IUT removes its TEI in response to an ID_Remove with TEI value 127 in Awaiting Release state (1.0)				
<ul style="list-style-type: none"> The IUT is expected to enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0). 				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL60_PREAMBLE (AI_No := 127) !UI_Mgmt START T3 ?TIMEOUT T3 +DL10_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL20_VERIFICATION +DL_POSTAMBLE ?DISC	L600	ID_Rmv (AI_No)	(P)	Set AI 127
GOTO L600 +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [NOT (TEI_AUTO)]		ID_Req	(P)	
		DISC_UC		P=1, IUT's T200 expire d
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.3.4				
Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MGMT.DM60_V1.1				
Identify: DM60_V1.1				
Purpose: Verify that the IUT responds to an ID_Remove with AI value 127. The IUT's TEI value received in Awaiting Release state (6.0). The IUT is expected to enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL60_PREAMBLE !UI_Mgmt START T3 ?TIMEOUT T3 +DL10_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL20_VERIFICATION +DL_POSTAMBLE ?DISC	L600	ID_Rmv (TEI_N)	(P)	AI value is the assigned TEI
GOTO L600 +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [NOT (TEI_AUTO)]		ID_Req	(P)	
		DISC_UC		P=1, IUT's T200 expire d
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.3.4				
Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). Allow for DISC due to expiry of IUT's T200.				

Test Case: Dynamic Behaviour					
Reference: LAPD/MGMT/DM60_V13					
Identifier: DM60_V13					
Purpose: Verify that the IUT either 1) sends an ID_Verify, 2) removes its TEI, or 3) does not respond, to a timeout of T200 N200 times in the Awaiting Release state (6.0). The IUT is expected to be in either Awaiting Establishment state (5.0), TEI Unassigned state (1.0), or TEI Assigned state (4.0) respectively.					
Default:					
Behaviour Description	Label	Constraints Reference			Comments
:DL60_PREAMBLE {RC := 0} [RC=N200] START TD ?DISC(RC := RC+1) GOTO L600 +DL60_UNEXPECTED GOTO L601 OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [RC.N200] START TD (ACT_ON_GH_MDL_ERR) (TEI_AUTO) ?UI_Mgmt +DL40_ID_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL20_VERIFICATION +DL_POSTAMBLE ?TIMEOUT TD +DL10_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L602 ?OTHERWISE +DL_POSTAMBLE	L600 L601				No return Mission yes Fail return Mission
				(F)	
				(F)	
	L602	ID_Ver	(P)		Sends ID_Verify
		ID_Req	(P)		Request a new TEI
			(F)		Removes TEI
			(F)		

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Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (TEI_AUTO)] ?SABME +DL40_VERIFICATION +DL_POSTAMBLE ?TIMEOUT Td [STABLE_IN_SL] +DL_POSTAMBLE [NOT (STABLE_IN_SL)] +DL40_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L604 ?OTHERWISE +DL_POSTAMBLE [NOT (ACT_ON_GH_MDL_ERR)] ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L603 ?OTHERWISE +DL_POSTAMBLE	L604	SABME_UC	(P)	Reassigned TEI
			(P)	TEI Removed
			(P)	TEI reassig ned
			(F)	
	L603		(P)	Does not respond
		SABME_UC	(P)	re-est link
			(F)	

The expected behavior depends on the way the IUT acts on the MDL-ERROR (G) or (H).

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD Mgmt, Dm60_V14				
Identifier: Dm60_V14				
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA(F.V). The IUT is expected to remain in Awaiting Release state (t.0) or, when TEI is removed, enter either TEI Unassigned state (t.0) or Awaiting Awaiting TEI state (t.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER OR TEI_AUTO] +DL60_PREAMBLE !UA		UA0_NK		Send in unsolicited UA to initiate ID_Verify procedures
START Td (UNSOLUA_ID_VER) ?DISC	L600	DISC1_UC		IUT T200 has expired
GOTO L600 ?UI_Mgmt		ID_Ver	(F)	Receive ID_Verify
+DL60_ID_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ((NOT(UNSOLUA_ID_VER)) AND #(TEI_AUTO))			(F)	No response
?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?DISC	L601		(F)	No response
GOTO L601 +DL60_UNEXPECTED GOTO L601 ?UI_Mgmt		DISC1_UC		IUT T200 has expired
		ID_Req	(F)	IUT has

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE (NOT(UNSOLUA_ID_VER OR TEI_AUTO))			(F)	
			1	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Conditional Execution The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM60_V15 Identifier:DM60_V15 Purpose:Verify that an IUT supporting automatic TEI assignment, enters TEI Unassigned state (1.0), and either sends an ID-Request or sends nothing, in response to an ID-Remove (AI=127) received in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL60_PREAMBLE !UI_Mgmt START Td ?UI_Mgmt +DL_POSTAMBLE ?RR GOTO L600 +DL60_UNEXPECTED GOTO L600 ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)]	L600	ID_Rmv(127) ID_Req RR1_UC(V_R)	(P)	
#				Test not run
Extended Comments:Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO).				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM60_V17 Identifier:DM60_V17 Purpose:Verify that an IUT supporting automatic TEI assignment, enters TEI Unassigned state, and either sends an ID-Request or sends nothing, in response to an ID-Remove (AI=IUT's TEI value) received in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL60_PREAMBLE !UI_Mgmt # START Td ?UI_Mgmt +DL_POSTAMBLE ?RR GOTO L600 +DL60_UNEXPECTED GOTO L600 ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)]	L600	ID_Rmv(TEI_No) ID_Req RR1_UC(V_R)	(P)	
#				Test not run
Extended Comments:Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO).				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/IM60_101				
Identifier: IM60_101				
Purpose: Verify that the IUT does not respond to an ID_Denied with AI=1, received in Awaiting Release state (6,0). The IUT is expected to remain in Awaiting Release state (6,0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE				
+IUT_Mgmt				
START T200 (T200value - DELTA)		ID_Denied (RI No. 127)		
?TIMEOUT T200 START T200	L600			
?DISC		DISC_UC	(F)	P=1, IUT's T200 expired
+DL60_VERIFICATION				
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE			(F)	
?OTHERWISE				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.3.2 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/IM60_101				
Identifier: IM60_101				
Purpose: Verify that the IUT does not respond to an ID_Check_Request with non-matching TEI received in Awaiting Release state (6,0). The IUT is expected to remain in Awaiting Release state (6,0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE				
+ASSIGN_TEI				
+IUT_Mgmt				
START T200 (T200value - DELTA)		ID_chk_req (TEI_No)		Assign TEI not in use
?TIMEOUT T200 START T200	L600			
?DISC		DISC_UC	(P)	P=1, IUT's T200 expired
+DL60_VERIFICATION				
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE			(F)	
?OTHERWISE				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.3.2 TEI value is a valid value not equal to the TEI value under test. Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAfD/MGMT/DM60_104				
Identifier: DM60_104				
Purpose: Verify that the IUT does not respond to an ID_Remove with non-matching Ai received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
# +DL60_PREAMBLE # +ASSIGN_AI # !UI_Mgmt START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	ID_Rmv(Ai_No)	(P)	Get an unused TEI Ai <> TEI_N , Ai valid
+DL60_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE			(P)	P=1, IUT's T200 expire d
			(F)	
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.3.4
 Ai is a valid value (64-126) but not equal to TEI under test.
 Allow for DISC due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/MGMT/DM60_N01 Identifier:DM60_N01 Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid management identifier received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
# # # # # # # #	+DL60_PREAMBLE (S_N:=63,T_N:=127,ME_ID:: #='1111000'B,MSG_TYPE:='-00000100'B) !UI_Mgmt	L600	Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)		Assign the Invalid Mgmt Identifier
# #	START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE		DISCl_UC	(P)	P=1, IUT's T200 expire d
				(F)	
				(F)	
				(F)	

Extended Comments:Q.921 Ref. 5.3.3.2
Allow for DISC due to expiry of the IUT's T200.

l'API) conformément à l'annex.

Table C-3: IUT's Test Environment					
Before the IUT's Mgmt (NO)					
Loop after the IUT's Mgmt					
Purpose: Verify that the IUT does not respond to an ID Check Request with an invalid TEI (L26) received in Awaiting Release state (6,0). The IUT is expected to remain in Awaiting Release state (6,0).					
Test Item	Behaviour Description	Label	Constraint Reference	V	Comments
*DL60_PREAMBLE (SE_N := 0, TE_N := L26, ME_ID := '00001111', MSG_TYPE := '00000100', B) IUT Mgmt	*START T200 (T200value DELTA) *TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE ?OTHERWISE +DL_POSTABLE +DL_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTABLE	L600	Invalid Mgmt (SE_N, TE_N, ME_ID, 0, MSG_TYPE, TEI_N)	(P)	Assign the invalid T200 Address
				(F)	P=1, IUT's T200 expire d
				(F)	
				(F)	

Extended Comments: Q.921 Ref. 5.3.3.2
Allow for DISC due to expiry of the IUT's T200.

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM70_V01 Identifier:DM70_V01 Purpose:Verify that an Automatic TEI either 1) sends an ID_Verify, or 2) removes TEI to an ID_Assign with Ai duplicated in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{TEI_AUTO AND TEIchk_no_IDReq} +DL70_PREAMBLE (Ai_No.: =TEI_N) !UI_Mgmt START Td ?UI_Mgmt +DL70_VERIFICATION +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE [NOT(TEI_AUTO AND TEIchk_no_IDReq)]	L700	ID_Assign_Ai (63,Ai_No) ID_Ver	(P) (F) (P)	Send duplicated Ai Rec'd ID-Verify No Response Removes TEI Test not run
Extended Comments:Q.921 Ref. 5.3.2 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). This test is not executed by the IUT that compares the TEI value in the Identity assigned message with its own only when an Identity Request message is outstanding (NOT(TEIchk_no_IDReq)). The test path is determined by the PIXIT parameter ID_VER_IMP which determines if the IUT implements the ID_Verify management procedures.				

Test Case: Pylar1 - Below-Get				
Reference: LAPD-MGMT-DM70-V03				
Identifier: DM70-V03				
Purpose: Verify that the IUP does not respond to an ID Assignment with no response to its first ID Verify. The IUP is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL70_PREAMBLE +ASSIGN_AI				Get an unsolicited AI <TEI>, AI valid
IUI_Mgmt		ID_Assign_AI (63, AI_No)		
START_TD ?TIMEOUT_TD	L700		(P)	Smart check AI
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.3.2 AI is a valid value (64-126) but not equal to the TEI under test.				

Test Case: Pylar1 - Below-Get				
Reference: LAPD-MGMT-DM70-V03				
Identifier: DM70-V03				
Purpose: Verify that the IUP sends a second ID_Verify after receiving no response to its first ID_Verify. The IUP is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
[UNRESOLVED_ID_VER] +DL70_PREAMBLE +IUA		UAI_NR		Send an unsolicited UA to initiate ID_Verify procedure;
START_TD ?IUI_Mgmt	L700	ID_Ver		Receive 1st ID_Verify
START_T202 ?TIMEOUT_T202	L701			Let T202 expire
START_T202 ?IUI_Mgmt	L702	ID_Ver	(P)	Receive second ID_Verify
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T202 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TD +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(UNSOQUA_ID_VER)] #			I	Test not run
Extended Comments: Q.21 Ref. 5.3.5.3 Conditional Execution- Multiple TEI's must be supported to run this test.				

Test Case: Dynamic Behaviour

Ref. Refs: LAPD-Mgmt/DM70_V04 Identifier: DM70_V04 Purpose: Verify that the IUT removes a TEI after receiving no response to two ID_Verify management frames sent by the IUT. The IUT is expected to enter TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOQUA_ID_VER] -LL70_PREAMBLE //UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedure
START ID ?UI_Mgmt	L700	ID_Ver		Receive 1st ID_Verify
START T202 ?TIMEOUT T202	L701			Let T202 expire
START T202 ?UI_Mgmt	L702	ID_Ver	(P)	Receive second ID_Verify
START T3 ?TIMEOUT T3	L703		(P)	TEI is removed
CALL ID_VERIFICATION				
#DL_POSTAMBLE	?UI_Mgmt			
#				
#				
#				
#DLID_VERIFICATION				
#DL_POSTAMBLE				
-DL70_UNEXPECTED GOTO L703 ?OTHERWISE		ID_Req	(P)	TEI is removed and attempt to reassign
			(P)	

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LAPD Conformance Testing

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Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM70_V09				
Identifier: DM70_V09				
Purpose: Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request. The IUT's TEI value is within the list of AI values specified in request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER] +DL70_PREAMBLE !UA		UAQ_NR		Send an unsolicited UA to initiate ID_Verify procedures
START Td ?UI_Mgmt +ASSIGN_AI	L700	ID_Ver		Get an unassigned TEI for the AI list in the ID Check Req Assigned TEI in the AI list
!UI_Mgmt_req1st		ID_chk_req1st (AI_No, TEI_N)		
START T201 ?UI_Mgmt	L701	ID_chk_resp (TEI_N)	(P)	
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE			(F)	No response

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Behaviour Description	Label	Constraints Reference	V	Comments
?TIMEOUT Td +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER)]			(F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.3.5.2
Conditional Execution - The test execution depends on whether the IUT responds to an unsolicited UA with ID_Verify procedures.

Test Case Summary				
Reference: LAMPD/MGMT/DM70_V11	Behaviour Description	Label	Constraints Reference	V
#	UNEXPECTED_ID_VER1 +DL70_PREAMBLE +L700	L700	ID_No	(F)
	START TM +DL70_PREAMBLE +ASSIGN AI	L700	ID_No	(F)
	+DL70_ID_VERIFICATION +DL70_UNEXPECTED GOTO L701 +DL70_POSTAMBLE +DL70_UNEXPECTED +DL70_POSTAMBLE GOTO L700 +DL70_UNEXPECTED +DL70_POSTAMBLE +DL70_POSTAMBLE GOTO L700	L701	ID_No, AI_Num	(F)
	+DL70_ID_VERIFICATION +DL70_UNEXPECTED GOTO L701 +DL70_POSTAMBLE +DL70_UNEXPECTED +DL70_POSTAMBLE GOTO L700 +DL70_UNEXPECTED +DL70_POSTAMBLE +DL70_POSTAMBLE GOTO L700	L701	ID_No, AI_Num	(F)
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Behaviour Description	Label	Constraints Reference	V	Comments
UNEXPECTED_ID_VER1 +DL70_PREAMBLE +L700	L700	ID_No	(F)	Test test run
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Test Case Summary				
Reference: LAMPD/MGMT/DM70_V11	Behaviour Description	Label	Constraints Reference	V
#	UNEXPECTED_ID_VER1 +DL70_PREAMBLE +L700	L700	ID_No	(F)
	START TM +DL70_PREAMBLE +ASSIGN AI	L700	ID_No	(F)
	+DL70_ID_VERIFICATION +DL70_UNEXPECTED GOTO L701 +DL70_POSTAMBLE +DL70_UNEXPECTED +DL70_POSTAMBLE GOTO L700 +DL70_UNEXPECTED +DL70_POSTAMBLE +DL70_POSTAMBLE GOTO L700	L701	ID_No, AI_Num	(F)
	+DL70_ID_VERIFICATION +DL70_UNEXPECTED GOTO L701 +DL70_POSTAMBLE +DL70_UNEXPECTED +DL70_POSTAMBLE GOTO L700 +DL70_UNEXPECTED +DL70_POSTAMBLE +DL70_POSTAMBLE GOTO L700	L701	ID_No, AI_Num	(F)
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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DW70_V12				
Identifier: DW70_V12				
Purpose: Verify that the IUT responds to an ID_Remove with AI value = IUT's TEI value in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE ?UI_Mgmt START TD ?TIMEOUT T3 +DL10_VERIFICATION +DL_POSTAMBLE ?UI_Mgmt +DL10_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	ID_Rmv (TEI_N)	(P)	
		ID_Req	(P)	
			(F)	

Extended Comments: Q.921 Ref. 5.3.4

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DW70_V13				
Identifier: DW70_V13				
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA(F=1) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(UNSOLUA_ID_VER OR TEI_AUTO) +DL70_PREAMBLE ?UA		UAL_Nr		Send an unsolicited UA to initiate ID_Verify procedures
START TD (UNSOLUA_ID_VER) ?UI_Mgmt	L700	ID_Ver	(P)	Receive ID_Verify
+DL70_ID_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE [(NOT (UNSOLUA_ID_VER)) AND (TEI_AUTO)]			(F)	No response
?TIMEOUT T3 +DL10_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?UI_Mgmt	L701	ID_Req	(P)	IUT has removed TEI and requesting ID
+DL20_VERIFICATION +DL_POSTAMBLE				No response

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Behaviour Description	Label	Constraints Reference	V	Comments
OTHERWISE +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)] #			(F) I	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

Test Case Dynamic Behaviour

Reference: LAPD/RENT/DM/0 V14 Identifier: DM/0 V14	Behaviour Description	Label	Constraints Reference	V	Comments
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA (F 0). The IUT is expected to remain in Multiple Frame Established state (7.0) or, when TEI is removed, enter either TEI Unassigned state (1.0) or Assign Awaiting TEI state (2.0). Default:	[UNSOLUA_ID_VER OR TEI_AUTO] +DL70_PREAMBLE !UA # # # # # # # # START ?D [UNSOLUA_ID_VER] ?UI_Mgmt # +DL70_ID_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT ?D +DL_POSTAMBLE [(NOT(UNSOLUA_ID_VER)) AND # (TEI_AUTO)] ?TIMEOUT ?D +DL10_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?UI_Mgmt # # # # +DL20_VERIFICATION +DL_POSTAMBLE ?OTHERWISE	L700 L701	UA0_NK ID_Ver ID_Req	(P) (F) (F) (P) (P) (P)	Send an unsolicited UA to initiate ID_Verify procedures Receive ID_Verify No response No response IUT has removed TEI and requesting ID

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[1]

Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)]			1	Test not run
Extended Comments:Q.921 Ref. 5.8.7 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the _ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW70_I01 Identifier:DW70_I01 Purpose:Verify that the IUT does not respond to an ID_Denied with Ai = 127 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !UI_Mgmt START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	ID_Denied (Ri_No, 127)	(P)	
			(F)	

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Extended Comments:Q.921 Ref. 5.3.2

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DW70_I03 Identifier:DW70_I03 Purpose:Verify that the IUT does not respond to an ID_Check_Request with non-matching TEI received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE +ASSIGN_TEI !UI_Mgmt START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	ID_chk_req (TEI_No)	(P)	Assign TEI not in use
			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2 TEI value is a valid value not equal to the TEI value under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MGMT_DM70_103 Identifier: DM70_104 Purpose: Verify that the IUP does not respond to an ID Remove with non-matching Ai received in Multiple Frame Established state (7.0). The IUP is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE +ASSIGN_Ai				Get an unused TEI
# # #		ID_Rmv(Ai_No)		Ai == TEI_N , Ai valid
!UI_Mgmt START Td ?TIMEOUT Td	L700		(P)	Unmatched Ai
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.3.4 Ai is a valid value (64-126) but not equal to TEI under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MGMT_DM70_101 Identifier: DM70_101 Purpose: Verify that the IUP does not respond to an ID Check Request with an invalid management identifier received in Multiple Frame Established state (7.0). The IUP is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (S_N:: 63, T_N:: 127, ME_ID:: # '11110000'B, MSG_TYPE:: '000000100'B) # # # # # # #				Assign the Invalid Mgmt Identifier
!UI_Mgmt START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	Invalid_Mgmt (S_N, T_N, ME_ID, 0, MSG_TYPE, TEI_N)	(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.3.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM70_N02 Identifier:DM70_N02 Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid SAPI (62) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (S_N::=62,T_N::=127,ME_ID:: #='00001111'B,MSG_TYPE::='00000100'B) # # # # # # #	L700	Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)	(P)	Assign the Invalid SAPI
START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2				

4 Abstract Test Suite - Part I

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM70_N03 Identifier:DM70_N03 Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid TEI Address(126) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (S_N::=63,T_N::=126,ME_ID:: #='00001111'B,MSG_TYPE::='00000100'B) # # # # # # #	L700	Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)	(P)	Assign the Invalid TEI Address
START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.3.3.2				

4 Abstract Test Suite - Part I

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LAPD's Performance Testing

Test Case Template Reference				
Test Case ID: TC001 (Example)				
Behavioral Description	Label	Test Case ID	V	Comments
<pre> [TEST AUTO] +EN_74_PREAMBLE +IL_1_Mid START IN +IL_1_Mid +IL_POSTAMBLE +RR GOTO L740 +IL_74_UNEXPECTED GOTO L740 TIMEOUT IN +IL_10_VERIFICATION +IL_POSTAMBLE +IL_POSTAMBLE +IL_POSTAMBLE [NOT (TEL_AUTO)] </pre>	L740	ID_100 (TEL No) ID_100 RCL_UC(V_R)	(P)	(P)
			(P)	(F)
			I	Test not run

Extended Comments: Q.921 Ref. 5.3.4

Conditional execution - This test is executed only if the IUT is an Automatic TEL (TEL_AUTO).

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[6]

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM74_V13				
Identifier: DM74_V13				
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA(F=1) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state (7.4) or, when TEI is removed, enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER OR TEI_AUTO] +DL74_PREAMBLE !UA		UA1_NR		Send an unsolicited UA to initiate ID_Verify procedures
START Td [UNSOLUA_ID_VER] ?RR	L740	RR1_UC(V_R)		IUT T200 has expired
GOTO L740 ?UI_Mgmt		ID_Ver	(P)	Receive ID_Verify
+DL74_ID_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	No response
[(NOT(UNSOLUA_ID_VER)) AND (TEI_AUTO)]	L741		(P)	
?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?RR		RR1_UC(V_R)		IUT T200 has expired
GOTO L741 +DL74_UNEXPECTED GOTO L741 ?UI_Mgmt		ID_Req	(P)	IUT has

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)]			(F) I	removed TEI and request ing ID Test not run
Extended Comments: Q.921 Ref. 5.8.2 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

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[6]

Test Case Dynamic Behaviour				
Reference: LAPD_MGMT_DM74_V14				
Identifier: DM74_V14				
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA(F=0) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state (7.4) or, when TEI is removed, enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLOA_ID_VER OR TEI_AUTO] +DL74_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START Td [UNSOLOA_ID_VER] ?RR	L740	RR1_UC(V_R)		IUT T200 has expired
GOTO L740 ?UI_Mgmt		ID_Ver	(P)	Receive ID_Verify
+DL74_ID_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE ((NOT(UNSOLOA_ID_VER)) AND #(TEI_AUTO))			(F)	No response
?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?RR	L741		(P)	
GOTO L741 +DL74_UNEXPECTED GOTO L741 ?UI_Mgmt		RR1_UC(V_R)		IUT T200 has expired
		ID_Req	(P)	IUT has

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Continued on next page

Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(UNSOLOA_ID_VER OR TEI_AUTO)]			(F)	removed TEI and requesting ID
#			I	Test not run

Extended Comments: Q.921 Ref. 5.8.2
Conditional Execution - The test execution path which the IUT will take is based on whether
1) The IUT is an automatic TEI device.
2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify.
3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM74_V15				
Identifier: DM74_V15				
Purpose: Verify that an IUT supporting automatic TEI assignment, enters the TEI Unassigned state (1.0), and either sends an ID-Request or sends nothing, in response to an ID Remove (AI=127) received in Multiple Frame Established state (7.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL74_PREAMBLE !OI_Mgmt START Td		ID_Rmv(127)		
?OI_Mgmt +DL_POSTAMBLE ?PR GOTO L740 +DL74_UNEXPECTED	L740	ID_Req	(P)	
GOTO L740 ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		RRL_UC(V_R)	(P)	
[NOT(TEI_AUTO)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO)				

Extended Comments:Q.921 Ref. 5.3.4

Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO)

Extended Comments: 0.921 Ref. 5.3.2.

Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO). This test is not executed by the IUT that compares the TEI value in the Identity assigned message with its own value only when an Identity Request message is outstanding (TEICHK.no.IDReq)). The test path is determined by the PIXIT parameter ID_VER_IMP which determines if the IUT implements the ID_Verify management procedures.

Test Case Description Table				
<p>Selected IUTs: MME, L800, VLR</p> <p>Start IUTs: MME, VLR</p> <p>Pre-conditions: Verify that the IUT does not respond to an ID Attach with a non-attached state (S-D). The IUT is expected to remain in their recovery state (S-D).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE				
+ASSIGN_AI				
IUT_Mgmt		ID Assign AI (C, AI_No)		Get an unsolicited TEI assigned. AI valid
START T200 (T200value DELTA)				
?TIMEOUT T200 START T200	L800			
?RR		REL_IN (V R)	(P)	P=L, IUT's T200 expired
+DL80_VERIFICATION				
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
?OTHERWISE				
+DL_POSTAMBLE			(F)	

Extended Comments: Q.921 Ref. 5.3.2
 AI is a valid value (64 - 126) but not equal to the TEI under test.
 Allow for RR poll due to expiry of the IUT's T200.

Test Case Description Table				
<p>Selected IUTs: MME, VLR, VLR</p> <p>Start IUTs: MME, VLR</p> <p>Pre-conditions: Verify that the IUT sends a second ID Verify after receiving the first ID Verify. The IUT is expected to remain in their recovery state (S-D).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
(UN-CDMA_ID_Ver)				
+DL80_PREAMBLE				
IUT		UN_RR		Send an unsolicited UA to initiate ID Verify procedure
START Td				
?UI_Mgmt		ID_Ver		Receive 1st ID Verify
START T202	L800			
?TIMEOUT T202	L801			Let T202 expire
START T202				
?UI_Mgmt	L802	ID_Ver	(P)	Receive second ID verify
+DL80_VERIFICATION				
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L802				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T202			(F)	
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L801				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT Td				
+DL_POSTAMBLE			(F)	

(1)
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Behaviour Description	Label	Constraints Reference	V	Comments
# [NOT(UNSOLUA_ID_VER)]			I	Test not run
Extended Comments: Q.921 Ref. 5.4.5.3 Conditional Execution- Multiple TEI's must be supported to run this test.				

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DW80_V04				
Identifier: DW80_V04				
Purpose: Verify that the IUT removes a TEI after receiving no response to two ID_Verify management frames sent by the IUT. The IUT is expected to enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER] +DL80_PREAMBLE !UA				
#				
#				
#				
#				
#				
START Td ?UI_Mgmt	L800	UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
#				Receive 1st ID_Verify
START T202 ?TIMEOUT T202	L801	ID_Ver		Let T202 expire
#				
START T202 ?UI_Mgmt	L802	ID_Ver	(P)	Receive second ID_Verify
#				TEI is removed
START Td ?TIMEOUT Td	L803		(P)	
#				
#+DL10_VERIFICATION				
#+DL_POSTAMBLE				
#				
#				
#				
#+DL10_VERIFICATION				
#+DL_POSTAMBLE				
+DL80_UNEXPECTED GOTO L803 ?OTHERWISE		ID_Req	(P)	TEI is removed and attempt to reassign
#			(F)	

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM80_V06				
Identifier:DM80_V06				
Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request with the TEI value set to 127 in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !UI_Mgmt		ID_chk_req (127)		Set TEI to 127
#				
START T201 ?UI_Mgmt	L800	ID_chk_resp (TEI_N)	(F)	Same Ai expected in response
#				
#				
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE			(F)	
			(F)	

Extended Comments:Q.921 Ref. 5.3.3.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM80_V07				
Identifier:DM80_V07				
Purpose:Verify that the IUT sends an ID_Check_Response in response to a ID_Check_Request (Ai matching). The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER] +DL80_PREAMBLE !UA START Td ?UI_Mgmt		UA0_NR		Send UA F=0
#	L800	ID_Ver ID_chk_req (TEI_N)		Rcv'd ID Verify Send ID Check Req
#				
#				
START T201 ?UI_Mgmt	L801	ID_chk_resp (TEI_N)	(P)	
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE			(F)	No response
+DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	No response
[NOT(UNSOLUA_ID_VER)]			(F)	No response
#			I	Test not run

Extended Comments:Q.921 Ref. 5.3.5.2

Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID_VERIFY procedures . If the IUT does send the ID_Verify, this test will respond with the ID_Check_request

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Real-time Dynamic Relocation

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Before a VTY that the IUT sends an ID_Check Response or in response to a ID_Check Request (Fig. 12/7). The ID_Check Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8, 0).

Behavior Description	Label	Constant's Reference	V	Comment :
<pre> [UNEXPECTED_VER] +DL80_PREAMBLE (FLAG::=FALSE) # # # # # # </pre>		UA0_NR		Assume no response Send an unsolicited UA to initiate ID_Verify procedures
<pre> START T4 ?UI_Mgmt !UI_Mgmt # </pre>	L800	ID_Ver ID_chk_req (127)		TEI set to 127
<pre> START T201 ?UI_Mgmt_reslst #(FLAG::=TRUE) </pre>	L801	ID_chk_reslst	(F)	
<pre> GOTO L801 +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 [FLAG=TRUE] # # </pre>			(P)	Receive at least one response
<pre> # +DL80_VERIFICATION +DL_POSTAMBLE [FLAG=FALSE] +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE </pre>			(F)	No response
			(F)	

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7)

Behaviour Description	Label	Constraints Reference	V	Comments
?TIMEOUT ID +DL_POSTAMBLE {NOT (UNSOLUA_ID_VERIFY)}			(F) I	Test not run
Extended Comments: Q.921 Ref. 5.3.5.2 Conditional Execution - The test execution path which the IUT will take is based on whether the IUT responds to an unsolicited UA with ID VERIFY procedures.				

Reference: LAPD/MGMT/DM80_V09
Identifier: DM80_V09

Behaviour Description	Label	Constraints Reference	V	Comments
Purpose: Verify that the IUT sends an ID Check Response in response to a ID Check Request. The IUT's TEI value is within the list of AI values specified in request. The ID_Check_Request was prompted by an ID_Verify sent by the IUT. The IUT is expected to remain in Timer Recovery state (8.0). Default:				
<pre> [UNSOLUA_ID_VERIFY] -DM80_PREAMBLE :UA START T3 :UI_Mgmt +ASSIGN_AI :Mgmt_reglet START T20: :UI_Mgmt :DL80_VERIFY +DL_POSTAMBLE GOTO L801 OTHERWISE :TIMEOUT T201 +DL_POSTAMBLE GOTO L800 OTHERWISE +DL_POSTAMBLE :TIMEOUT T4 </pre>	L800	UA0_NR ID_Ver		Send an unsolicited UA to initiate ID_Verify procedures Get an unassigned TEI for AI list in ID Check Req Assigned TEI is in the AI list
	L801	ID_chk_reqst (AI_No,TEI_N) ID_chk_resp (TEI_N)	(P) (F) (F) (F) (F)	No response

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Behavioral Description	Label	Test Case Reference	Comments
<pre> api_PORTABLE [NOT(UNSOLUA_ID_VER)] </pre>		1	Test not run

Extended Comments: C.921 Ref. 5, 3, 5, 9

Conditional Execution The test execution depends on whether the IDP responds to an unsolicited DA with ID Verify procedure.

Year	Number of cases		Rate per 100,000
	Male	Female	
1990	10	10	1.0
1991	10	10	1.0
1992	10	10	1.0
1993	10	10	1.0
1994	10	10	1.0
1995	10	10	1.0
1996	10	10	1.0
1997	10	10	1.0
1998	10	10	1.0
1999	10	10	1.0
2000	10	10	1.0
2001	10	10	1.0
2002	10	10	1.0
2003	10	10	1.0
2004	10	10	1.0
2005	10	10	1.0
2006	10	10	1.0
2007	10	10	1.0
2008	10	10	1.0
2009	10	10	1.0
2010	10	10	1.0
2011	10	10	1.0
2012	10	10	1.0
2013	10	10	1.0
2014	10	10	1.0
2015	10	10	1.0
2016	10	10	1.0
2017	10	10	1.0
2018	10	10	1.0
2019	10	10	1.0
2020	10	10	1.0

Behavior	Behavior Description	Label	Constraint Reference	V	Comments
#	[UNASSIGNED ID VER]				
#	+DL80_PREAMBLE				
#	+UA				
#					
#					
#					
#	START T1				
#	+UI_Mgmt	L800			
#	+ACTION_AI				
#					
#	+UI_Mgmt_reqlist				
#					
#	START T201				
#	+UI_Mgmt	L801		(P)	
#					
#	+DL80_ID_VERIFICATION				
#	+DL_POSTAMBLE				
#	+DL80_UNEXPECTED GOTO L801				
#	?OTHERWISE			(F)	
#	+DL_POSTAMBLE				
#	?TIMEOUT T201			(F)	
#	+DL_POSTAMBLE				
#	+DL80_UNEXPECTED				
#	GOTO L800				
#	?OTHERWISE			(F)	
#	+DL_POSTAMBLE				
#	?TIMEOUT T3			(F)	
#					

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[#]

Test Case Purpose Behaviour				
Reference: LAPD NGMT, UNSOLV_V1				
Ident (Inter-UNSG) V1				
Purpose: Verify that the IUT sends an ID_Verify or removes a TEI in response to an unsolicited UA(F=1) in their Recovery state (S, 0). The IUT is expected to remain in their Recovery state (S, 0) or, when TEI is removed, enter either TEI Unassigned state (1,0) or Assign Awaiting TEI state (2,0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSQLUA_ID_VER OR TEI_AUTO] +DL80_PREAMBLE !UA		UAL_NK		Send an unsolicited UA to initiate ID_Verify procedures
START Td [UNSQLUA_ID_VER] ?RR	L800	RRL_UC(V_R)		IUT T200 has expired
GOTO L800 ?UI_Mgmt		ID_Ver	(F)	Receive ID_Verify
+DL80_ID_VERIFICATION +DL_POSTAMBLE				
+DL80_UNEXPECTED GOTO L800			(F)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT Td			(F)	No response
+DL_POSTAMBLE				
{(NOT(UNSQLUA_ID_VER)) AND (TEI_AUTO)}				
?TIMEOUT Td	L801		(F)	No response
+DL10_VERIFICATION +DL_POSTAMBLE				
?RR		RRL_UC(V_R)		IUT T200 has expired
GOTO L801 +DL80_UNEXPECTED GOTO L801				
?UI_Mgmt		ID_Req	(F)	IUT has

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(UNSQLUA_ID_VER OR TEI_AUTO)]			(F)	Test not run
Extended Comments: O.921 Ref. 5.8.7 Conditional Execution The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_Verification) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non automatic TEI device and does not implement ID_Verify_Response to UA.				

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behaviour Description	Label	Constraints Reference	V	Comments
+DL20_VERIFYCAPTION +DL_SUSTAINABLE OTHERWISE +DL_FORSAMPLE +DL_CONS(UA_ID_VER OR TEL_AUTO)			(F) I	removed TEL and request ing ID Test not run

Extended Comments: Q.421 Ref. 5.3.3

Conditional Execution - The test execution path which the IUT will take is based on whether

- 1) The IUT is an automatic TEL device.
- 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFYCAPTION) to ensure that the IUT does not respond the ID_Verify.
- 3) The IUT is a non-automatic TEL device and does not implement ID_Verify Response to UA.

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MGMT-T200-T03				
Identifier: T200-T03				
Purpose: Verify that the IUT does not respond to an ID Check Request 127 in Timer Recovery state (R.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL80_PREAMBLE IUT Mgmt				
START T200 (T200value DELTA)				
TIMEOUT T200 START T200 ERR	L800		(F)	
+DL80_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.3.3.2 Allow for RR due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MGMT-T200-T03				
Identifier: T200-T03				
Purpose: Verify that the IUT does not respond to an ID Check Request with non-matching TEI in Timer Recovery state (R.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL80_PREAMBLE +ASSIGN_TEI				
IUT Mgmt				
START T200 (T200value DELTA)				
TIMEOUT T200 START T200 ERR	L800	ID_chk_req (TEI No)		Assign TEI not in use
+DL80_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE		RR_UC(V_R)	(P)	P.I.UUT's T200 expire d
			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.3.3.2 TEI value is a valid value not equal to the TEI value under test. Allow for RR due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM80_I04 Identifier:DM80_I04 Purpose:Verify that the IUT does not respond to an ID_Remove with non-matching Ai in Timer Recovery state (8.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE +ASSIGN_AI				
!UI_Mgmt		ID_Rmv(Ai_No)		Get an unused TEI Ai <> TEI_N , Ai valid
START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?RR	L800	RR1_UC(V_R)	(P)	P=1, IUT's T200 expired
+DL80_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE			(F) (F) (F)	
Extended Comments:Q.921 Ref. 5.3.4 Ai is a valid value (64-126) but not equal to TEI under test. Allow for RR due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

0657

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MGMT/DM80_N01 Identifier:DM80_N01 Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid management identifier in Timer Recovery state (8.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (S_N:=63,T_N:=127,ME_ID:: #='11110000'B,MSG_TYPE:='000C0100'B) # # # !UI_Mgmt # # # # # # START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?RR # # +DL80_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE	L800	Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N) RR1_UC(V_R)	(P) (F) (F) (F)	Assign the invalid Management Identifier P=1, IUT's T200 expired
Extended Comments:Q.921 Ref. 5.3.2.3 Allow for RR poll due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

0658

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM80_N04				
Identifier: DM80_N04				
Purpose: Verify that the IUT does not respond to a UJ frame with a valid management entity identifier, but with an undefined message type, in Timer Recovery state (S.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (S_N:=63,T_N:=127,ME_ID:= # '00001111'B,MSG_TYPE:=11111111'B)				Assign the undefined message type
#				
#				
# !UI_Mgmt		Invalid_Mgmt (S_N,T_N, ME_ID,0, MSG_TYPE, TEI_N)		
#				
#				
#				
START T200 (T200value - DELTA)				
?TIMEOUT T200 START T200	L800	RR1_UC(V_R)	(P)	P=1, IUT's T200 expired
#				
#				
+DL80_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE			(F) (F) (F)	
Extended Comments: Q.921 Ref. 5.2.3 Allow for RR poll due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM84_V11				
Identifier: DM84_V11				
Purpose: Verify that an IUT supporting automatic TEI assignment, enters TEI Unassigned state, and either sends an ID-Request or sends nothing, in response to an ID-Remove (AI=IUT's TEI value) received in Timer Recovery state (S.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] +DL84_PREAMBLE !UI_Mgmt		ID_Rmv(TEI_No)		
#				
START Td ?UI_Mgmt +DL_POSTAMBLE ?RR GOTO L840 +DL84_UNEXPECTED GOTO L840 ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)]	L840	ID_Reg RR1_UC(V_R)	(P)	
#				
Extended Comments: Q.921 Ref. 5.3.4 Conditional execution - This test is executed only if the IUT is an Automatic TEI (TEI_AUTO).				
			(F)	I Test not run

Test Case Name: LAPD				
Reference: LAPD/M2100M3_V13				
Identified: M2100M3_V13				
Purpose: Verify that the IUT sends an ID_Verify as received TEI in response to an unsolicited L841 in Time Recovery state (S. 4). The IUT is expected to remain in Time Recovery state (S. 4) or, when TEI is removed, enter the Unassigned state (S. 4).				
Default:				
Behaviour Description	Label	Comments Reference	V	Comments
[UNSOLUA_ID_VER OR TEI_AUTO] +DL84_PREAMBLE +UA		VAL_NK		Send an unsolicited UA to initiate ID_Verify process
START Td [UNSOLUA_ID_VER] ?RR	L840	RR_UC(V_R)		IUT T200 has expired
GOTO L840				
?UI_Mgmt		ID_Ver	(P)	Receive ID_Verify
+DL84_ID_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840			(F)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT Td				
+DL_POSTAMBLE [(NOT(UNSOLUA_ID_VER)) AND #(TEI_AUTO)]				
?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE	L841		(P)	No response
?RR		RR_UC(V_R)		IUT T200 has expired
GOTO L841				
+DL84_UNEXPECTED GOTO L841				
?UI_Mgmt		ID_Req	(P)	IUT has

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Behaviour Description	Label	Comments Reference	V	Comments
+DL_POSTAMBLE ?OTHERWISE				
+DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)]			(F)	removed TEI and request ing ID
			T	Test not run
Extended Comments: Q.921 Rel. 5.8.2 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MGMT/DM84_V14				
Identifier: DM84_V14				
Purpose: Verify that the IUT sends an ID_Verify or removes TEI in response to an unsolicited UA(F=0) in Timer Recovery state (8.4). The IUT is expected to remain in Timer Recovery state (8.4) or, when TEI is removed, enter TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNSOLUA_ID_VER OR TEI_AUTO] +DL84_PREAMBLE !UA		UA0_NR		Send an unsolicited UA to initiate ID_Verify procedures
START TD [UNSOLUA_ID_VER] ?RR	L840	RR1_UC (V_R)		IUT T200 has expired
GOTO L840 ?UI_Mgmt		ID_Ver	(P)	Receive ID_Verify
+DL84_ID_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE +DL_POSTAMBLE {(NOT(UNSOLUA_ID_VER)) AND # (TEI_AUTO) }			(F)	No response
?TIMEOUT TD +DL10_VERIFICATION +DL_POSTAMBLE ?RR	L841	RR1_UC (V_R)	(P)	IUT T200 has expired
GOTO L841 +DL84_UNEXPECTED GOTO L841 ?UI_Mgmt		ID_Rrq	(P)	IUT has

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE [NOT(UNSOLUA_ID_VER OR TEI_AUTO)]			(F)	removed TEI and request ing ID
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.2 Conditional Execution - The test execution path which the IUT will take is based on whether 1) The IUT is an automatic TEI device. 2) The IUT responds to an unsolicited UA with ID_Verify procedures. If the IUT does send the ID_Verify, this test will respond with the ID_Check_Request management frame (in the ID_VERIFICATION) to ensure that the IUT does not resend the ID_Verify. 3) The IUT is a non-automatic TEI device and does not implement ID_Verify_Response to UA.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S10/DL10_I02				
Identifier:DL10_I02				
Purpose:Verify that the IUT ignores a DM/F=1 received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !DM START Td ?TIMEOUT Td # +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	DM1_NR	(P)	F=1 No response rcvd.
Extended Comments:Q.921 Ref. 5.3.1				

4 Abstract Test Suite - Part I

0669

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S10/DL10_I10				
Identifier:DL10_I10				
Purpose:Verify that the IUT ignores a REJ/F=1 received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !REJ START Td ?TIMEOUT Td # +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	REJ1_NR(0)	(P)	F=1 No response rcvd.
Extended Comments:Q.921 Ref. 5.3.1				

4 Abstract Test Suite - Part I

0670

LAPD Conformance Testing

Test Case Type: Primary				
<p>Reference: LAPD-MTC-000-010-113</p> <p>Identifier: DL10_113</p> <p>Purpose: Verify that the IUT ignores a RNR F.I received in TEL Unassigned state (1.0). The IUT is expected to remain in TEL Unassigned state (1.0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
<p>+DL10_PREAMBLE</p> <p>+RNR</p> <p>START IN</p> <p>PTIMEOUT IN</p> <p>+DL10_VERIFICATION</p> <p>+DL_POSTAMBLE</p> <p>+DL10_UNEXPECTED</p> <p>GOTO L100</p> <p>OTHERWISE</p> <p>+DL_POSTAMBLE</p>	L100	RNR_NR(0)	(F)	P-1 No response received.
Extended Comments: Q.921 Ref. 5.3.1				

LAPD Conformance Testing

Test Case Type: Dynamic Behaviour				
<p>Reference: LAPD-MTC-000-010-101</p> <p>Identifier: DL10_101</p> <p>Purpose: Verify that the IUT does not respond to a SAME/P-1 in Assign Awaiting TEL state (2.0). The IUT is expected to remain in Assign Awaiting TEL state (2.0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
<p>+DL20_PREAMBLE</p> <p>+SAME</p> <p>START IN</p> <p>PTIMEOUT IN</p> <p>+DL20_VERIFICATION</p> <p>+DL_POSTAMBLE</p> <p>+DL20_UNEXPECTED</p> <p>GOTO L100</p> <p>OTHERWISE</p> <p>+DL_POSTAMBLE</p>	L100	SAME_NC	(P)	P-1 no response
Extended Comments: Q.921 Ref.				
Test Cases in Assign Awaiting TEL state (2.0) are only executed for automatic TEL devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S20/DL20_I02				
Identifier:DL20_I02				
Purpose:Verify that the IUT does not respond to a DISC/P=1 in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !DISC START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	DISC1_NC	(P)	P=1 no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices..				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S20/DL20_I03				
Identifier:DL20_I03				
Purpose:Verify that the IUT does not respond to a DM/F=1 in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !DM START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	DM1_NR	(P)	F=1 no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO: S20 DL20_104				
Identifiers: DL20_104				
Purpose: Verify that the IUP does not respond to a UA/P-1 in Assign Awaiting TEI state (2.0). The IUP is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UA START TI ?TIMEOUT TI +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	UAI_NR	(P) (F)	F-1 no response
Extended Comments: Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO: S20/DL20_105				
Identifiers: DL20_105				
Purpose: Verify that the IUP does not respond to a RK/P-1 in Assign Awaiting TEI state (2.0). The IUP is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !RR START TI ?TIMEOUT TI +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	RK1_NC(0)	(P) (F)	F-1 no response
Extended Comments: Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S20/DL20_I07 Identifier:DL20_I07 Purpose:Verify that the IUT does not respond to a REJ/P=1 in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !REJ START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	REJ1_NC(0)	(P)	P=1 no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S20/DL20_I11 Identifier:DL20_I11 Purpose:Verify that the IUT does not respond to a RNR/P=1 in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !RNR START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	RNR1_NC(0)	(P)	P=1 no response
Extended Comments:Q.921 Ref.				
Test cases in Awaiting Establishment state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_V01				
Identifier: DL40_V01				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in TEI Assigned state (4.0). The IUT is expected to be in Waiting Establishment state (5.0) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [(NOT (IDLE_STATE4))] +DL40_PREAMBLE ~\IUT!SABME> Start Topr ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE </pre>	L400	SABME1_UC	(P)	Initiate Link Establishment Request P=1
Extended Comments: Q.921 Ref. 5.5.1.2 Conditional Execution - IUT must be able to send SABME on command.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_V04				
Identifier: DL40_V04				
Purpose: Verify that the IUT sends either an UA/F=1 or a DM/F=1 in response a SABME/P=1 received in TEI Assigned state (4.0). The IUT is expected to be either in Multiple Frame Established state (7.0) or TEI Assigned state (4.0) after sending the response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> +DL40_PREAMBLE !SABME START T200 ?UA +DL70_VERIFICATION +DL_POSTAMBLE ?DM +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE </pre>	L400	SABME1_NC UA1_UR DM1_UR	 (P) (P) (F) (F)	P=1 F=1 F=1
Extended Comments: Q.921 Ref. 5.5.1.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_V06				
Identifier:DL40_V06				
Purpose:Verify that the IUT sends either an UA/F=0 or a DM/F=0 in response a SABME/P=0 received in TEI Assigned state (4.0). The IUT is expected to be either in Multiple Frame Established state (7.0) or TEI Assigned state (4.0) after sending the response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !SABME START T200 ?UA +DL70_VERIFICATION +DL_POSTAMBLE ?DM +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L400	SABME0_NC UA0_UR DM0_UR	(P) (P) (P) (F) (F)	P=0 F=0 F=0
Extended Comments:Q.921 Ref. 5.5.1.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_V08				
Identifier:DL40_V08				
Purpose:Verify that the IUT sends a DM/F=1 in response to a DISC/P=1 received in TEI Assigned state (4.0). The IUT is expected to be in TEI Assigned state (4.0) after sending DM/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DISC START T200 ?DM +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L400	DISC1_NC DM1_UR	(P) (F) (F)	P=1 F=1
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_V09				
Identifier: DL40_V09				
Purpose: Verify that the IUT sends a DM/F=0 in response to a DISC/P 0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0) after sending DM/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DISC START T200 ?DM +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L400	DISC0_NC DM0_UR	(P) (F) (F)	P=0 F 0
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_V10				
Identifier: DL40_V10				
Purpose: Verify that the IUT ignores a DM/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DM START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	DM1_NR	(P) (F)	F=1 No response rcvd.
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_V11				
Identifier:DL40_V11				
Purpose:Verify that the IUT sends either a SABME/P 1 or no direct response to a DM/F=0 received in TEI Assigned state (4.0). The IUT is expected to be either in Awaiting Establishment state (5.0) or TEI Assigned state (4.0) after response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DM START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?TIMEOUT Td	L400	DM0_NR SABME_UC	(F) (F)	F=0 F=1
# +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(P)	No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I01				
Identifier:DL40_I01				
Purpose:Verify that the IUT sends no direct response to a FRMR/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !FRMR_UA START Td ?TIMEOUT Td	L400	FRMR_UA1_NR	(P)	No response rcvd.
# +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_102				
Identifier: DL40_102				
Purpose: Verify that the IUT sends no direct response to a FRMR/P=1 (rejecting a DM) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !FRMR_DM START TD ?TIMEOUT TD # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	FRMR_DM1_NR	(P)	No response rcvd.
			(F)	
Extended Comments: Q.921 Ref. 5.5.4.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_103				
Identifier: DL40_103				
Purpose: Verify that the IUT sends no direct response to a RR/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RR START TD ?TIMEOUT TD # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RR1_NC(0)	(P)	P=1 No response rcvd.
			(F)	
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I04 Identifier:DL40_I04 Purpose:Verify that the IUT sends no direct response to a RR/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RR0_NC(0)	(P)	P=0 No response rcvd.
Extended Comments:Q.921 Ref. 5.5.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I05 Identifier:DL40_I05 Purpose:Verify that the IUT sends no direct response to a RR/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RR1_NR(0)	(P)	F=1 No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD REQ:240/DL40_106				
Identifier: DL40_106				
Purpose: Verify that the IUT sends no direct response to a REQ=0 received in TEL Assigned state (4.0). The IUT is expected to remain in TEL Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL40_PREAMBLE PRR START TM ?TIMEOUT TM	L400	REQ_NR(0)	F 0	
#			(F)	No response recvd.
+DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD REQ:340/DL40_107				
Identifier: DL40_107				
Purpose: Verify that the IUT sends no direct response to a REQ=1 received in TEL Assigned state (4.0). The IUT is expected to remain in TEL Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL40_PREAMBLE PRR START TM ?TIMEOUT T:00	L400	REQ_NR(0)	P 1	
#			(F)	No response recvd.
+DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I08				
Identifier:DL40_I08				
Purpose:Verify that the IUT sends no direct response to a REJ/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !REJ START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	REJ0_NC(0)	(P)	P=0 No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I09				
Identifier:DL40_I09				
Purpose:Verify that the IUT sends no direct response to a REJ/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !REJ START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	REJ1_NR(0)	(P)	F=1 No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S40/DL40_I10				
Identifier: DL40_I10				
Purpose: Verify that the IUT sends no direct response to a REJ/F=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RNR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	REJ0_NR(0)	(P)	F=0 No response rcvd.
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S40/DL40_I11				
Identifier: DL40_I11				
Purpose: Verify that the IUT sends no direct response to a RNR/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RNR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RNR1_NC(0)	(P)	P=1 No response rcvd.
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFG/S40/DL40_I12				
Identifier: DL40_I12				
Purpose: Verify that the IUT sends no direct response to a RNR/P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RNR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RNR0_NC(u)	(F)	F=0 No response rcvd.
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFG/S40/LL40_I13				
Identifier: LL40_I13				
Purpose: Verify that the IUT sends no direct response to a RNR/F=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+LL40_PREAMBLE !RNR START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +LL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RNR1_NR(0)	(P)	F=1 No response rcvd.
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/340/TL40_T14				
Identifier: BL40_T14				
Purpose: Verify that the IUT sends no direct response to a RNR/F-0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE +RNR START T1 ?TIMEOUT T1 #	L400	RNR0_NR(0)	(F)	F-0 No response rcvd.
+DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/340/TL40_T15				
Identifier: BL40_T15				
Purpose: Verify that the IUT sends no direct response to an L-frame with P-1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE +L START T1 ?TIMEOUT T1 #	L400	L1_NC(0,0)	(P)	P-1 No response rcvd.
+DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_I17 Identifier:DL40_I17 Purpose:Verify that the IUT sends no direct response to an I_frame with P=0 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE :I START Td ?TIMEOUT Td #	L400	I0_NC(0,0)	(P)	P=0 No response rcvd.
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_N01 Identifier:DL40_N01 Purpose:Verify that the IUT sends no direct response to a SABME/P=1, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE :SABME_TL START Td ?TIMEOUT Td #	L400	SABME_TL_NC	(P)	P=1 No response rcvd.
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_N02 Identifier: DL40_N02				
Purpose: Verify that the IUT sends no direct response to a DISC command/P-1, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DISC_TL START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	DISC_TL1_NC	(F)	P-1 No response rcvd.
#			(F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_N03 Identifier: DL40_N03				
Purpose: Verify that the IUT sends no direct response to a UA response/F-0, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UA_TL START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	UA_TL0_NR	(P)	F=0 No response rcvd.
#			(F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_N04				
Identifier:DL40_N04				
Purpose:Verify that the IUT sends no direct response to a DM /F=0, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DM_TL START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	DM_TL0_NR	(P)	F=0 No response rcvd.
#			(F)	
Extended Comments:Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_N05				
Identifier:DL40_N05				
Purpose:Verify that the IUT sends no direct response to a FRMR response/F=0, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !FRMR_TL START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	FRMR_TL0_NR	(P)	F=0 No response rcvd.
#			(F)	
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_N06				
Identifier: DL40_N06				
Purpose: Verify that the IUT sends no direct response to a RR command/P1, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RR_TL START TI ?TIMEOUT TI	L400	RR_TL1_NC(0)	(P)	P=1 No response rcvd.
# +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S40/DL40_N07				
Identifier: DL40_N07				
Purpose: Verify that the IUT sends no direct response to a RNR command/P1, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RNR_TL START TI ?TIMEOUT TI	L400	RNR_TL1_NC(0)	(P)	P=1 No response rcvd.
# +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_N08				
Identifier:DL40_N08				
Purpose:Verify that the IUT sends no direct response to a REJ command/P=1, with excess length, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE ! I_TL START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	REJ_TL1_NC(0)	(P)	P=1 No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S40/DL40_N09				
Identifier:DL40_N09				
Purpose:Verify that the IUT sends no direct response to an I-frame received in TEI Assigned state (4.0) with an information field exceeding N201 octets . The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE ! I_TL START Td ?TIMEOUT Td # +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	I_TL1_NC(0,0)	(P)	N201 error No response rcvd.
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_V05 Identifier:DL50_V05 Purpose:Verify that the IUT sends a UA/F=0 in response to SABME/P=0 in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0) after sending the correct response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !SABME START T200 ?UA +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L500	SABME0_NC UA0_UR	(P)	P=0 F=0
Extended Comments:Q.921 Ref. 5.5.1.1.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_V06 Identifier:DL50_V06 Purpose:Verify that the IUT sends a DM/F=1 in response to DISC/P=1 in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0) after sending the correct response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !DISC START T200 ?DM +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L500	DISC1_NC DM1_UR	(P)	P=1 F=1
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_V07				
Identifier: DL50_V07				
Purpose: Verify that the IUT sends a DM/F-0 in response to DISC/P-0 in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0) after sending the correct response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !DISC START T200 ?DM +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L500	DISC0_NC DM0_UR	(P) (F)	P=0 F=0
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_V08				
Identifier: DL50_V08				
Purpose: Verify that the IUT does not send a response to UA/F=1 received in the Awaiting Establishment state (5.0). The IUT is expected to enter Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !UA START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	UAL_NR	(P) (F)	F=1
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_V10				
Identifier:DL50_V10				
Purpose:Verify that the IUT does not send a response to DM/F=1 received in the Awaiting Establishment state (5.0). The IUT is expected to enter TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !DM START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	DM1_NR	(P) (F)	F=1
Extended Comments:Q.92i Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_V11				
Identifier:DL50_V11				
Purpose:Verify that the IUT ignores the receipt of an unsolicited DM/F=0 response received in the Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !DM START T200 ?TIMEOUT T200 START Td ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE ?TIMEOUT Td +DL_POSTAMBLE +DL_POSTAMBLE # +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE	L500	DM0_NR SABME1_UC SABME1_UC	 (P) (P) (F) (I) (I) (F)	F=0 Allow retransmission
Extended Comments:Q.92i Ref. 5.5.5				

1 APD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD/MD/350/INL50_V1.2</p> <p>Identifier: 1010_V1.2</p> <p>Purpose: Verify that after the expiry of timer T200, with N200 not exceeding the limit, the IUT sends a SABME P-1 in the Awaiting Establishment state (5,0). The IUT is expected to remain in the Awaiting Establishment state (5,0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE START TH ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TH +DL_POSTAMBLE	L500	SABME_UC	(P)	P-1 R0:1
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE GOTO L500 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE			(F)	
			(P)	

Extended Comments: Q.921 Ref. 5.5.1.3

1 APD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD/MD/350/INL50_R01</p> <p>Identifier: 1010_R01</p> <p>Purpose: Verify that the IUT does not send a response to a SABME/P-1 with incorrect length (too long) received in Awaiting Establishment state (5,0). The IUT is expected to remain in Awaiting Establishment state (5,0).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT IN ACT_ON_MDL_ERROR] +DL50_PREAMBLE ?SABME_TL START T200 (T200value = DELTA) ?TIMEOUT T200 START T200 ?SABME # # +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE	L500 L501	SABME_TL_NC SABME_UC	 (P)	P-1 P-1, IUT's T200 expired
[ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	Test not run

Extended Comments: Q.921 Ref. 5.5.4

Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.
Allow for SABME due to expiry of the IUT's T200.

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_N02				
Identifier:DL50_N02				
Purpose:Verify that the IUT does not send a response to a DISC/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL50_PREAMBLE !DISC_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	DISC_TL1_NC		P=1
#				
#				
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L501	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the FIXIT. Allow for SABME due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

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Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_N03				
Identifier:DL50_N03				
Purpose:Verify that the IUT does not send a response to a UA/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL50_PREAMBLE !UA_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	UA_TL0_NR		F=0
#				
#				
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L501	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the FIXIT. Allow for SABME due to expiry of the IUT's T200.				

4 Abstract Test Suite - Part I

0722

1 APD Conformance Testing

Test Case: Dynamic Behaviour				
<p>Before test (APD state is (S,0))</p> <p>After 1000 Ref. (P=0)</p> <p>Expected: Verify that the IUT does not send a response to a PMT/P-0 with incorrect length (also test) received in awaiting establishment state (S,0). The IUT is expected to remain in Awaiting Establishment state (S,0)</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [NOT(ACT_ON_MDL_ERROR)] +DL50_FRAME +PM_TL START T200 (T200value DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR] </pre>	L500 L501	PM_TL0_NK SABME_UC	(P) (F) (F) (F) I	P=0 P=1 IUT's T200 expired Test not run
<p>Extended Comments: Q.921 Ref. 5.5.4</p> <p>Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.</p> <p>Allow for SABME due to expiry of the IUT's T200.</p>				

1 APD Conformance Testing

Test Case: Dynamic Behaviour				
<p>Before test (APD state is (S,0))</p> <p>After 1000 Ref. (P=0)</p> <p>Expected: Verify that the IUT does not send a response to a PMT/P-0 with incorrect length (also test) received in Awaiting Establishment state (S,0). The IUT is expected to remain in Awaiting Establishment state (S,0)</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [NOT(ACT_ON_MDL_ERROR)] +DL50_FRAME +PM_TL START T200 (T200value DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR] </pre>	L500 L501	PM_TL0_NK SABME_UC	(P) (F) (F) (F) I	P=0 P=1 IUT's T200 expired Test not run
<p>Extended Comments: Q.921 Ref. 5.5.4</p> <p>Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.</p> <p>Allow for SABME due to expiry of the IUT's T200.</p>				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_N06 Identifier: DL50_N06 Purpose: Verify that the IUT does not send a response to an RR/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL50_PREAMBLE !RR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	RR_TL1_NC(0)		P=1
#	L501	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_N07 Identifier: DL50_N07 Purpose: Verify that the IUT does not send a response to a RNR/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL50_PREAMBLE !RNR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	RNR_TL1_NC(0)		P=1
#	L501	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

1. API Conformance Testing

Behavior Description	Label	Conformance Reference	V	Comments
<p>INT(Act ON MDL_ERROR)</p> <p>+DL50_PREAMBLE</p> <p>USE T2</p> <p>START T200 (200value - DELTA)</p> <p>?TIMEOUT T200</p> <p>START T200</p> <p>?SABME</p> <p>+DL50 VERIFICATION</p> <p>+DL POSTAMBLE</p> <p>+DL50 UNEXPECTED</p> <p>GOTO L501</p> <p>?OTHERWISE</p> <p>+DL POSTAMBLE</p> <p>?TIMEOUT T200</p> <p>+DL POSTAMBLE</p> <p>+DL50 UNEXPECTED</p> <p>GOTO L500</p> <p>?OTHERWISE</p> <p>+DL POSTAMBLE</p> <p>[ACT ON MDL_ERROR]</p>	<p>L500</p> <p>L501</p>	<p>REF. 5.5.4 N(0)</p> <p>SABME UC</p>	<p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p> <p>(F)</p>	<p>P-1</p> <p>P-1 IUT's T200 expired</p> <p>Test not run</p>

Extended Comments: Q.921 Ref. 5.5.4

Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.

1. API Conformance Testing

Behavior Description	Label	Conformance Reference	V	Comments
<p>INT(Act ON MDL_ERROR)</p> <p>+DL50_PREAMBLE</p> <p>START T200 (200value - DELTA)</p> <p>?TIMEOUT T200</p> <p>START T200</p> <p>?SABME</p> <p>+DL50 VERIFICATION</p> <p>+DL POSTAMBLE</p> <p>+DL50 UNEXPECTED</p> <p>GOTO L501</p> <p>?OTHERWISE</p> <p>+DL POSTAMBLE</p> <p>?TIMEOUT T200</p> <p>+DL POSTAMBLE</p> <p>+DL50 UNEXPECTED</p> <p>GOTO L500</p> <p>?OTHERWISE</p> <p>+DL POSTAMBLE</p> <p>[ACT ON MDL_ERROR]</p>	<p>L500</p> <p>L501</p>	<p>1. TLL N(0,0)</p> <p>SABME UC</p>	<p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p> <p>(F)</p>	<p>P-1</p> <p>P-1 IUT's T200 expired</p> <p>Test not run</p>

Extended Comments: Q.921 Ref. 5.5.4

Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_N10 Identifier:DL50_N10 Purpose:Verify that the IUT does not send a response to a frame with undefined control field received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL50_PREAMBLE !UNDEF		UNDEF_NC		Undefined control field encoding
#				
#				
#				
START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500			
#				
#				
+DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L501	SABME_UC	(P)	P=1 IUT's T200 expired
#				
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				
			I	Test not run

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I01 Identifier:DL50_I01 Purpose:Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a SABME) in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !FRMR_SA START Td ?TIMEOUT Td +DL50_VERIFICATION +DL_POSTAMBLE ?SABME GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	FRMR_SAI_NR	(P)	
		SABME_UC	(F)	
Extended Comments:Q.921 Ref. 3.6.11				

Test Case Dynamic Behaviour				
Reference: LAPD_MTC_5.8.0_10.0_10.0 Identifies the purpose of the test case. Purpose: Verify that the IUT does not send a response to a FRMR/F-I response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !FRMR_UA START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L500	FRMR_DAL_MR		
+DL50_VERIFICATION +DL_POSTTABLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTTABLE ?TIMEOUT T200 +DL_POSTTABLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTTABLE	L501	SABME_UC	(F)	F-I IUT's T200 expired
			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.6 Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I04				
Identifier:DL50_I04				
Purpose:Verify that the IUT does not send a response to a FRMR/F-1 (rejecting an I frame) in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !FRMR_I START Td ?TIMEOUT Td +DL50_VERIFICATION +DL_POSTAMBLE ?SABME GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	FRMR_I1_NR SABME1_UC	(P)	
Extended Comments:Q.921 Ref. 3.6.11				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I05				
Identifier:DL50_I05				
Purpose:Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a Supervisory frame) in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !FRMR_SUP START Td ?TIMEOUT Td +DL50_VERIFICATION +DL_POSTAMBLE ?SABME GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500	FRMR_SUP1_NR SABME1_UC	(P)	
Extended Comments:Q.921 Ref. 3.6.11				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I10				
Identifier:DL50_I10				
Purpose:Verify that the IUT does not send a response to an RR/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE				
:RR		RR1_NR(0)		F=1
START T200 (T200value - DELTA)				
?TIMEOUT T200	L500			
START T200				
?SABME	L501	SABME1_UC	(F)	P=1
+DL50_VERIFICATION				
+DL_POSTAMBLE				
+DL50_UNEXPECTED				
GOTO L501				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
+DL50_UNEXPECTED				
GOTO L500				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

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4 Abstract Test Suite - Part I

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I11				
Identifier:DL50_I11				
Purpose:Verify that the IUT does not send a response to an RR/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE				
:RR		RR0_NR(0)		F=0
START T200 (T200value - DELTA)				
?TIMEOUT T200	L500			
START T200				
?SABME	L501	SABME1_UC	(P)	P=1
+DL50_VERIFICATION				
+DL_POSTAMBLE				
+DL50_UNEXPECTED				
GOTO L501				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
+DL50_UNEXPECTED				
GOTO L500				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour

Reference: LAPD-MTO-5.0-DL50-112 Identified: DL50-112 Purpose: Verify that the IUT does not send a response to an REL P=1 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE ?REL START T200 (T200value = DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	REL1_NC(0) SABME1_UC	 (P)	P=1 P=1
			(F)	(F)
			(F)	(F)
			(F)	(F)

Extended Comments: Q.921 Ref. 5.8.7
Allow for SABME due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour

Reference: LAPD-MTO-5.0-DL50-113 Identified: DL50-113 Purpose: Verify that the IUT does not send a response to an REL P=0 command in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE ?REL START T200 (T200value = DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	REL0_NC(0) SABME1_UC	 (P)	P=0 P=1
			(F)	(F)
			(F)	(F)

Extended Comments: Q.921 Ref. 5.8.7
Allow for SABME due to expiry of the IUT's T200.

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I14				
Identifier:DL50_I14				
Purpose:Verify that the IUT does not send a response to an REJ/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	REJ1_NR(0) SABME1_UC	 (P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S50/DL50_I15				
Identifier:DL50_I15				
Purpose:Verify that the IUT does not send a response to an REJ/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	REJ0_NR(0) SABME1_UC	 (P)	F=0 P=1
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_I18				
Identifier: DL50_I18				
Purpose: Verify that the IUT does not send a response to an RNR/F=1 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !RNR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	RNR1_NR(0) SABME1_UC	 (P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_I19				
Identifier: DL50_I19				
Purpose: Verify that the IUT does not send a response to an RNR/F=0 response in the Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !RNR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	RNR0_NR(0) SABME1_UC	 (P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_120				
Identifier: DL50_120				
Purpose: Verify that the IUT does not send a response to an I/P=1 command in the Awaiting Establishment state (5,0). The IUT is expected to remain in the Awaiting Establishment state (5,0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !! START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	IL_NC(0,0) SABME_UC	 (P)	P-1 P-1
Extended Comments: Q.921 Ref. 5.8.4 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S50/DL50_121				
Identifier: DL50_121				
Purpose: Verify that the IUT does not send a response to an I/P=0 command in the Awaiting Establishment state (5,0). The IUT is expected to remain in the Awaiting Establishment state (5,0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !! START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500 L501	IO_NC(0,0) SABME_UC	 (P)	P=0 P=1
Extended Comments: Q.921 Ref. 5.5.4 Allow for SABME due to expiry of the IUT's T200.				

LAI'D Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S51/DL51_V06 Identifier: DL51_V06 Purpose: Verify that the IUT sends a UA/F=1 in response to SABME/P=1 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.				
Default:	Behaviour Description	Label	Constraints Reference	V Comments
	+DL51_PREAMBLE !SABME START T200 ?UA +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L510	:SABME_N" UA_UR	P-1 P-1 (P) (P) (P)

Extended Comments: Q.921 Ref. 5.5.1.

Test Case Dynamic Behaviour				
Reference: LAPD/DFD/SS1/DL51_V07				
Idom: Ifier: DL51_V07				
Purpose: Verify that the IUT sends a UA/P=0 in response to SABME/P=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE		SABMF0_NC		P=0
ISABME				P=0
START T200	L510	UA0_UUR	(P)	
30A				
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL51_UNEXPECTED				
GOTO L510				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
Extended Comments: 0.92 Ref. 5.5.1.2				

LAPP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPP/MFO/S51/DL51_V08				
Identifier: DL51_V08				
Purpose: Verify that the IUT sends a DM/F=1 in response to DISC/P=1 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE IDISC START T200 ?DM +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L510	DISC1_NC DM1_UR	(P)	F=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2				

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LAPP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPP/MFO/S51/DL51_V09				
Identifier: DL51_V09				
Purpose: Verify that the IUT sends a DM/F=0 in response to DISC/P=0 in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1) after sending the correct response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE IDISC START T200 ?DM +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L510	DISC0_NC DM0_UR	(P)	F=0 F=0
Extended Comments: Q.921 Ref. 5.5.3.2				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S51/DL51_V10 Identifier: DL51_V10 Purpose: Verify that the IUT does not send a response to a UA/F=1 in the Awaiting Establishment state (5.1). The IUT is expected to enter Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !UA START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510	UA1_NR	(F)	F=1
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S51/DL51_V12 Identifier: DL51_V12 Purpose: Verify that the IUT does not send a response to DM/F=1 in the Awaiting Establishment state (5.1). The IUT is expected to enter TEI ASSIGNED state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !DM START T200 ?TIMEOUT T200 START Td ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME	L500	DM1_NR	(F)	F=1
+DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		SABME1_UC	(P)	P=1
?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		SABME1_UC	(F)	
?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		SABME1_UC	(I)	
?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		SABME1_UC	(I)	Allow retransmission
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFC 3v1 DL51_V13				
Identifier: DL51_V13				
Purpose: Verify that the IUT does not send a response to the receipt of an unsolicited DM_F=0 response frame in the Awaiting Establishment state (S.1). The IUT is expected to remain in the Awaiting Establishment state (S.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE ?DM START T200 ?TIMEOUT T200 START T1 ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE	L500	DMO_NR SABME_UC	(F) (F) (F) (1) (1) (F)	F=0 F=1 Allow retransmission
#				
Extended Comments: Q.921 Ref. 5.5.6				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFC 3v1 DL51_V14				
Identifier: DL51_V14				
Purpose: Verify that after the expiry of timer T200, with N200 not exceeding the limit, the IUT sends a SABME/P=1 in the Awaiting Establishment state (S.1). The IUT is expected to remain in the Awaiting Establishment state (S.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE ?SABME ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE	L510	SABME_UC	(F) (F) (F)	P=1 R=1
Extended Comments: Q.921 Ref. 5.5.1.3				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/551/DL51_N01 Identifier:DL51_N01 Purpose:Verify that the IUT does not send a response to a SABME/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL51_PREAMBLE :SABME_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	SABME_TL1_NC		P=1
# #	L511	SABME1_UC	(F)	P=1 IUT's T200 expired
+DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]				
#			(F)	
#			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/551/DL51_N03				
Identifier: DL51_N03				
Purpose: Verify that the IUT does not send a response to a UA/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !UA_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	UA_TLO_NR		F=0
#	L511	SABME_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/551/DL51_N04				
Identifier: DL51_N04				
Purpose: Verify that the IUT does not send a response to a DM/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !DM_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	DM_TLO_NR		F=0
#	L511	SABME_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_N05				
Identifier:DL51_N05				
Purpose:Verify that the IUT does not send a response to an FRMR/F=0 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !FRMR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	FRMR_TL0_NR		F 0
#	L511	SABME_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_N06				
Identifier:DL51_N06				
Purpose:Verify that the IUT does not send a response to an RR/P=1 with incorrect length (too long) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !RR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	RR_TL1_NC(0)		P=1
#	L511	SABME_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

Test Case: Static Behaviour				
<p>Refer to LAPD MDL/MDL/MDL/MDL MDL</p> <p>Identify the MDL</p> <p>Purpose: Verify that the IUT does not send a response to an expected length (too long) received in Awaiting Establishment state (3.1). The IUT is expected to remain in Awaiting Establishment state (3.1).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT ON MDL_ERROR)]				
+DL51 PREAMBLE				
+RNR TL NC (0)				P-1
START T200 (T00value + DELTA)				
?TIMEOUT T200	L510			
START T200				
?SABME	L511	SABME1 UC	(P)	P-1 IUT's T200 expired
+DL51 VERIFICATION				
+DL POSTAMBLE				
+DL51 UNEXPECTED				
GOTO L511				
?OTHERWISE				
?TIMEOUT T200				
+DL POSTAMBLE				
+DL51 UNEXPECTED				
GOTO L510				
?OTHERWISE				
+DL POSTAMBLE				
[ACT ON MDL_ERROR]				
			(F)	Test not run

Extended Comments: Q.921 Ref. 5.5.4

Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.

Allow for SABME due to expiry of the IUT's T200.

Test Case: Dynamic Behaviour				
<p>Refer to LAPD MDL/MDL/MDL/MDL MDL</p> <p>Identify the MDL</p> <p>Purpose: Verify that the IUT does not send a response to a RCU/P-1 with incorrect length (too long) received in Awaiting Establishment state (3.1). The IUT is expected to remain in Awaiting Establishment state (3.1).</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT ON MDL_ERROR)]				
+DL51 PREAMBLE				
+RNR TL NC (0)				P-1
START T200 (T00value + DELTA)				
?TIMEOUT T200	L510			
START T200				
?SABME	L511	SABME1 UC	(P)	P-1 IUT's T200 expired
+DL51 VERIFICATION				
+DL POSTAMBLE				
+DL51 UNEXPECTED				
GOTO L511				
?OTHERWISE				
?TIMEOUT T200				
+DL POSTAMBLE				
+DL51 UNEXPECTED				
GOTO L510				
?OTHERWISE				
+DL POSTAMBLE				
[ACT ON MDL_ERROR]				
			(F)	Test not run

Extended Comments: Q.921 Ref. 5.5.4

Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.

Allow for SABME due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/SS1/DL51_N09 Identifier:DL51_N09 Purpose:Verify that the IUT does not send a response to an I/P=1 with incorrect length (too long) (exceeding N201 octets) received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !I_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510	I_TL1_NC(0,0)		P=1
#	L511	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE GOTO L511 ?OTHERWISE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
#			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/SS1/DL51_N10 Identifier:DL51_N10 Purpose:Verify that the IUT does not send a response to a frame with undefined control field received in Awaiting Establishment state (5.1). The IUT is expected to remain in Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL51_PREAMBLE !UNDEF		UNDEF1_NC		Undefined control field encoding
#				
#				
#				
START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME	L510			
#	L511	SABME1_UC	(P)	P=1 IUT's T200 expired
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
#			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for SABME due to expiry of the IUT's T200.				

LAP Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAPP.MFO/S-1 DL51 TO:					
Identifier: DL51_102					
Purpose: Verify that the IUT does not send a response to a FRMR/F-1 response in the Awaiting Establishment State. The IUT is expected to remain in the Awaiting Establishment state (S ₁).					
Default :					
Behaviour Description	Label	Constraint Reference	V	Comment	
*DL51_PREAMBLE !FRMR UA		FRMR_UA_DL51		F=1	
START T200 (T200=value DELTA)	L510				
?TIMEOUT T200					
START T200	L511	SARME_UC	(F)	F=1	
?SARME					
+DL51_VERIFICATION					
+DL_POSTAMBLE					
+DI50_UNEXPECTED					
GOTO L511					
?OTHERWISE				(F)	
+DL_POSTAMBLE					
?TIMEOUT T200				(F)	
+DL_POSTAMBLE					
+DL51_UNEXPECTED					
GOTO L510					
?OTHERWISE					
+DL_POSTAMBLE				(F)	

Extended Comments: Q.921 Ref. 5.8.6
Allow for SARME due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:	LATE/MF0/S1/DLSL_108				
Identifier:	DLSL_108				
Purpose:	Verify that the IUT does not send a response to a RR/p=1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:					
behaviour Description	Label	Constraints Reference	V	Comments	
+DLSI_PREAMBLE IRK START T200 (T200value - DELTA) ?TIMEOUT_T200 START T200 ?SAPME +DL51_VERIFICATION +DL_POSTAMBLE +DL50_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 	RR1_NC(0)	(P)	P=1	
	L511	SAPME_UC	(P)	P=J	
			(F)	(F)	
			(F)	(F)	
			(F)	(F)	

Extended Comments: Q.921 Ref. 5.8.7
Allow for SAPME due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_I09				
Identifier:DL51_I09				
Purpose:Verify that the IUT does not send a response to a RR/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !RR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	RR0_NC(0)		P=0
		SABME1_UC	(P)	P=1
				(F)
				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_I10				
Identifier:DL51_I10				
Purpose:Verify that the IUT does not send a response to a RR/F=1 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !RR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	RR1_NR(0)		F=1
		SABME1_UC	(P)	P=1
				(F)
				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_I13				
Identifier:DL51_I13				
Purpose:Verify that the IUT does not send a response to a REJ/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE 'REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	REJ0_NC(0) SABME1_UC	 (P) (F) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S51/DL51_I14				
Identifier:DL51_I14				
Purpose:Verify that the IUT does not send a response to a REJ/F=1 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE 'REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	REJ1_NR(0) SABME1_UC	 (P) (F) (F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/551/DL51 IT's Identifier: DL51 IT's Purpose: Verify that the IUT does not send a response to a REJ/F-0 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	REJ0_NR(0) SABME1_UC	 (P) (F) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/551/DL51 IT's Identifier: DL51 IT's Purpose: Verify that the IUT does not send a response to a RNR/P-1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !RNR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	RNR1_NC(0) SABME1_UC	 (P) (F) (F) (F)	P=1 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S51/DL51_I18 Identifier:DL51_I18 Purpose:Verify that the IUT does not send a response to a RNR/F=1 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL51_PREAMBLE !RNR START T200 (T200=value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 	RNR1_NR(0)		F=1	
	L511	SABMEL_UC	(P)	P=1	
			(F)		
			(F)		
			(F)		

Extended Comments:Q.921 Ref. 5.8.7
Allow for SABME due-to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S51/DL51_119				
Identifier: DL51_119				
Purpose: Verify that the IUT does not send a response to a RNR/P-0 response in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !RNR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	RNR0_NR(0) SABME_UC	 (P)	 P-1
Extended Comments: Q.921 Ref. 5.8.7 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S51/DL51_120				
Identifier: DL51_120				
Purpose: Verify that the IUT does not send a response to a I/P-1 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE !I START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L511 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE	L510 L511	T1_NC(0,0) SABME_UC	 (P)	 P-1
Extended Comments: Q.921 Ref. 5.5.4 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MTO/S51/DL51_121 Identifier: DL51_121 Purpose: Verify that the IUT does not send a response to a I/P=0 command in the Awaiting Establishment state (5.1). The IUT is expected to remain in the Awaiting Establishment state (5.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL51_PREAMBLE				
!!				
START T200 (T200value = DELTA)	L510	IO_NC(0,0)		P=0
TIMEOUT T200				
START T200	L511	SABME_UC	(F)	P=1
?SABME				
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL51_UNEXPECTED				
GOTO L511				
?OTHERWISE				
+DL_POSTAMBLE				
TIMEOUT T200				
+DL_POSTAMBLE				
+DL51_UNEXPECTED				
GOTO L510				
?OTHERWISE				
+DL_POSTAMBLE				
Extended Comments: Q.921 Rel. 5.5.4 Allow for SABME due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MTO/60/DL60_V04 Identifier: DL60_V04 Purpose: Verify that the IUT sends a DM/F=1 in response to SABME/P=1 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE				
?SABME		SABME_NC		P=1
START T200				
DM	L600	DM1_UC	(P)	F=1
+DL60_VERIFICATION				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE				
TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Rel. 5.5.1.2				

LAMP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAMP/MFO/360/DL60_V05 Identifier: DL60_V05 Purpose: Verify that the IUT sends a DM/F=0 in response to SAMPLE_F=0 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.				
Default:				
Behaviour Description	Label	CONSTRAINTS Reference	V	Comments
+DL60_PREAMBLE !SAMPLE START T200 ?DM +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L600	SAMPLE_NC DM0_UR	(1) (F)	P=0 F=2 (F) (F)
Extended Comments: Q.921 Ref. 5.5.1.2				

LAMP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAMP/MFO/360/DL60_V06 Identifier: DL60_V06 Purpose: Verify that the IUT sends a UA/F=1 in response to DISC/P=1 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.				
Default:				
Behaviour Description	Label	CONSTRAINTS Reference	V	Comments
+DL60_PREAMBLE !DISC START T200 ?UA +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L600	DISC_NC UA1_UR	(F) (F)	P=1 F=1 (F) (F)
Extended Comments: Q.921 Ref. 5.5.5.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_V07				
Identifier: DL60_V07				
Purpose: Verify that the IUT sends a UA/F=0 in response to DISC/P=0 in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0) after sending the correct response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !DISC START T200 ?UA +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L600	DISC0_NC UA0_UR	(P)	P=0 F=0
Extended Comments: Q.921 Ref. 5.5.5.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_V08				
Identifier: DL60_V08				
Purpose: Verify that the IUT enters TEI Assigned state (4.0) in response to UA/F=1 received in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !UA START T200 ?TIMEOUT T200 START T1 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T2 +DL_POSTAMBLE ?DISC +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE	L600	UA1_NR DISC1_UC	(P) (P)	F=1 P=1
#		DISC1_UC	(I) (I) (F)	Allow retransmission
Extended Comments: Q.921 Ref. 5.5.3.2				

1. API Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAMP/MFO/200/P3.60 V11				
Length: 0160 V11				
Purpose: Verify that the IUF ignores the receipt of an unsolicited IMF 0 in awaiting release state (6.0). The IUF remains in the awaiting release state (6.0).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL0_POSTAMBLE +IM +START T200 ?TIMEOUT T200 +START Td ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE ?OTHERWISE ?TIMEOUT Td +DL_POSTAMBLE ?DISC	L600	IM0_NR	(P)	P 0
+DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		DISC_UC	(P)	P 1
?DISC +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		DISC_UC	(F)	
?DISC +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		DISC_UC	(I)	Allow retransmission
?DISC +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE		DISC_UC	(F)	

#

Extended Comments: Q.92 Ref. 5.5.6

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S60/DL60_V12				
Identifier: DL60_V12				
Purpose: Verify that after expiry of timer T200, in Awaiting Release state (6.0), with N200 not exceeding the limit, the IUT sends a DISC/P=1. The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE START Td ?DISC +DL60_VERIFICATION +DL_POSTAMBLE GOTO L600 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L600	DISC_UC	(F)	P=1
Extended Comments: Q.921 Ref. 5.5.3.3				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S60/DL60_N01				
Identifier: DL60_N01				
Purpose: Verify that the IUT does not send a response to a SABME/P=1 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)]; +DL60_PREAMBLE :SABME_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L600 L601	SABME_TL1_NC DISC_UC	 (F) (F) (F) I	P=1 P=1 IUT's T200 expired Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to expiry of the IUT's T200.				

1 APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD: S60-TL60 NR2 Identifier: TL60 NR2 Purpose: Verify that the IUT does not send a response to a DISC/P-1 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !DISC_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600 L601	DISC_TL_NR		P-1
# # +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]		DISC_UC	(P)	P-1 IUT's T200 expired
#				
			(F)	
			(F)	
			(F)	
			I	Tests not run

Extended Comments: Q.921 Ref. 5.5.4
Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.
Allow for DISC due to expiry of the IUT's T200.

1 APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD: S60-TL60 NR1 Identifier: TL60 NR1 Purpose: Verify that the IUT does not send a response to a UA/P-0 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT (ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !UA_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600 L601	UA_TL_NR DISC_UC		P-0 P-1 IUT's T200 expired
# # +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F) (F) (F) (F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.5.4
Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT.
Allow for DISC due to expiry of the IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S60/DL60_N04				
Identifier:DL60_N04				
Purpose:Verify that the IUT does not send a response to a DM/F=0 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !DM_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	DM_TLO_NR	P=1	P=1 IUT's T200 expire d
# #	L601	DISC1_UC	(P)	P=1 IUT's T200 expire d
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S60/DL60_N05				
Identifier:DL60_N05				
Purpose:Verify that the IUT does not send a response to an FRMR/F=0 with incorrect length (too long) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !FRMR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	FRMR_TLO_NR	F=0	F=0
# #	L601	DISC1_UC	(P)	P=1 IUT's T200 expire d
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]			(F)	
			(F)	
			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60 N06 Identifier: DL60 N06 Purpose: Verify that the IUT does not send a response to an RR/P=1 with incorrect length (too long) received in Awaiting Release state (6,0). The IUT is expected to remain in Awaiting Release state (6,0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !RR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	RR_TLL_NC(0)	P=1	
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L601	DISC_UC	(P)	P=1 IUT's T200 expired
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60 N07 Identifier: DL60 N07 Purpose: Verify that the IUT does not send a response to an RNR/P=1 with incorrect length (too long) received in Awaiting Release state (6,0). The IUT is expected to remain in Awaiting Release state (6,0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !RNR_TL START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600	RNR_TLL_NC(0)	P=1	
+DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE [ACT_ON_MDL_ERROR]	L601	DISC_UC	(P)	P=1 IUT's T200 expired
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_N10 Identifier: DL60_N10 Purpose: Verify that the IUT does not send a response to a frame with undefined control field received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(ACT_ON_MDL_ERROR)] +DL60_PREAMBLE !UNDEF		UNDEF1_NC		Undefined control field encoding
START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC	L600			
+DL60_VERIFICATION +DL_POSTAMBLE GOTO L601 ?OTHERWISE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L601	DISC1_NC	(F)	1 - IUT's T200 expired
{ACT_ON_MDL_ERROR}			(F)	Test not run
Extended Comments: 0.921 Ref. 5.5.4 Although the IUT is not expected to send any response, the IUT indicates MDL_ERROR upon which the IUT's action is implementation dependent and should be as indicated in the PIXIT. Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_I01 Identifier: DL60_I01 Purpose: Verify that the IUT does not send a response to a FRMR/F=1 (rejecting a DISC) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !FRMR_DISC START T0 ?TIMEOUT T0 +DL60_VERIFICATION +DL_POSTAMBLE ?DISC	L600	FRMR_DISC1_NR	(P)	
GOTO L600 +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE		DISC1_UC	(F)	
Extended Comments: 0.921 Ref. 3.6.11				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_I04				
Identifier: DL60_I04				
Purpose: Verify that the IUT does not send a response to a FRMR/F-1 (rejecting an I frame) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !FRMR_I START TI ?TIMEOUT TI +DL60_VERIFICATION ?DISC GOTO L600 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600	FRMR_I1_NR DISC1_UC	(P) (F)	
Extended Comments: Q.921 Ref. 3.6.11				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_I05				
Identifier: DL60_I05				
Purpose: Verify that the IUT does not send a response to a FRMR/F-1 (rejecting a Supervisory frame) in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !FRMR_SUP START TI ?TIMEOUT TI +DL60_VERIFICATION ?DISC GOTO L600 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600	FRMR_SUP1_NR DISC1_UC	(P) (F)	
Extended Comments: Q.921 Ref. 3.6.11				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_I10				
Identifier: DL60_I10				
Purpose: Verify that the IUT does not send a response to an RR/F=1 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !RR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600 L601	RR1_NR(V_S) DISCL_UC	 (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_I11				
Identifier: DL60_I11				
Purpose: Verify that the IUT does not send a response to an RR/F=0 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !RR START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600 L601	RR0_NR(V_S) DISCL_UC	 (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S60/DL60_IL3 Identifier:DL60_IL3 Purpose:Verify that the IUT does not send a response to a REJ/P=0 command in the Awaiting Release state {6.0}. The IUT is expected to remain in the Awaiting Release state {6.0}.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !REJ START T200 (T200+value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600 L601	REJO_NC(V_S)	(P)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.7 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_114 Identifier: DL60_114 Purpose: Verify that the IUT does not send a response to a REJ/F-1 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE {REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600 L601	REJ1_NR(V_S) DISC1_UC	 (P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S60/DL60_115 Identifier: DL60_115 Purpose: Verify that the IUT does not send a response to a REJ/F=0 response in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE {REJ START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?DISC +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L601 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600 L601	REJ0_NR(V_S) DISC1_UC	 (P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.7 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S60/DL60_I20				
Identifier:DL60_I20				
Purpose:Verify that the IUT does not send a response to an I/P=1 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE				
! I				
START T200 (T200value - DELTA)				
?TIMEOUT T200	L600	I1_NC(0,0)		P=1
START T200				
?DISC	L601	DISC1_UC	(P)	P=1
+DL60_VERIFICATION				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L601				
?OTHERWISE				
+DL_POSTAMBLE				(F)
?TIMEOUT T200				
+DL_POSTAMBLE				(F)
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE				(F)
Extended Comments:Q.921 Ref. 5.5.4 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S60/DL60_I21				
Identifier:DL60_I21				
Purpose:Verify that the IUT does not send a response to an I/P=0 command in the Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE				
! I				
START T200 (T200value - DELTA)				
?TIMEOUT T200	L600	I0_NC(0,0)		P=0
START T200				
?DISC	L601	DISC1_UC	(P)	P=1
+DL60_VERIFICATION				
+DL_POSTAMBLE				
+DL60_UNEXPECTED				
GOTO L601				
?OTHERWISE				
+DL_POSTAMBLE				(F)
?TIMEOUT T200				
+DL_POSTAMBLE				(F)
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE				
+DL_POSTAMBLE				(F)
Extended Comments:Q.921 Ref. 5.5.4 Allow for DISC due to expiry of the IUT's T200.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V04 Identifier: DL70_V04 Purpose: Verify that the IUT does not send an I frame (queued) when V(S)=v(A)+k (window is closed) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_WC_SETUP START Td ?RR	L700	RR1_UC(V_R)		P=1, wait for IUT to poll
(N_R:=V_S) !RR		RR1_NR(N_R)		P=1, ack all I frames
START Td ?I(N_R:=I.N_S)	L701	I0_UC(V_S, V_R)	(F)	P=0
(V_S:=V_S+1, N_R: !RR		RR0_UR(N_R)		F=0
##DL70_VERIFICATION				
##DL_POSTAMBLE				
+DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
+DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
[NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run

Continued on next page

LAPD Conformance Testing

..... Continued from previous page.

Extended Comments: Q.921 Ref. 5.6.1
Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V08 Identifier: DL70_V08 Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME START T200 ?UA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	SABME1_NC UAL_UR	(P) (F) (F)	P=1 P=1

Extended Comments: Q.921 Ref. 5.5.2

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V12				
Identifier:DL70_V12				
Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Assigned state after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	DISCL_NC UAL_UR	 (P) (F) (F)	 P=1 F=1
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour			
Reference:LAPD/MFO/S70/DL70_V14 Identifier:DL70_V14 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V Comments
+DL70_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	DM0_NR SABME1_UC	F=0 P=1 (P) (F) (F)
Extended Comments:Q.921 Ref. 5.7.1			

Web Case Dynamic Behaviour				
References: LSPD/MQ/250/1223 V16 Description: 0010 V16				
Purpose/Verify that the IUP sends nothing in response to a IUP/F-1 received in Multiple Frame Established state (V0) - The IUP is expected to remain in Multiple Frame Established state				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_POSTABLE IUP START ID PTIMEOUT IN +DL70_VERIFICATION +DL_POSTABLE +DL70_UNEXPECTED GOTO L700 NOTHERWISE +DL_POSTABLE	L700	IML_NR	(F)	(F)
Extended Comments: Q.971 Ref. 5.8.7				

Web Case Dynamic Behaviour				
References: LSPD/MQ/250/1223 V17 Description: 0010 V17				
Purpose/Verify that the IUP sends a SAMBI/F-1 after receiving a FRMC received in IUP in Multiple Frame Established state (V0) - The IUP is expected to enter Awaiting Establishment state after sending SAMBI/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_POSTABLE FRMC NR START T200 GOTO L700 PTIMEOUT T200 NOTHERWISE +DL_POSTABLE PTIMEOUT T200 +DL_POSTABLE	L700	FRMC_NR SAMBIE DC	(P) (P) (F) (F)	(P)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V20 Identifier:DL70_V20 Purpose:Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR(V_A:=V_S) # # START T200 ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RR1_NC(V_S) RR1_UR(V_R)	 (P) (F) (F)	 P=1, N(R) set to V_S OF IUT F=1
Extended Comments:Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V21 Identifier:DL70_V21 Purpose:Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR(V_A:=V_S) # # START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	RR0_NC(V_S)	 (P) (F)	 P=0, N(R) set to V(S) of IUT
Extended Comments:Q.921 Ref. 5.6.5				

Test Case: Dynamic Behaviour				
Reference: LAPD/RRQ/570/70 V23				
<p>Purpose: Verify that the IUT does not respond to an RR/P-0 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after send no response.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> +DL70_PREAMBLE !RR(V_A: V_5) START T4 ?TIMEOUT T4 +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE </pre>	L700	RRQ_NR(V_5)	(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.6.5

Test Case: Dynamic Behaviour				
Reference: LAPD/RRQ/570/70 V24				
<p>Purpose: Verify that the IUT sends an RR/P-1 in response to an RR/P-1 command with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/P-1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> {CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL70_P1_SETUP (R_R: V_5-1) !RR(V_A: N_R) START T200 ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE </pre>	L700	RR1_NC(N_R)	(P)	P=1
		RR1_UK(V_R)	(P)	F=1
			(F)	
			(F)	
<pre> {NOT(CAN_SEND_IFRAMES)} </pre>			I	Test not run

Extended Comments: Q.921 Ref. 5.6.5

Executed if IUT is able to send SAME on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V25				
Identifier: DL70_V25				
Purpose: Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I	L700	RR0_NC(N_R)		P=0
#		!L_UC(N_R, V_R)	(P)	P=1, retrans mit I frame
+DL80_VERIFICATION +DL_POSTAMBLE ?RR		RR1_UC(V_R)	(P)	P=1
+DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
			(F)	
			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V26				
Identifier: DL70_V26				
Purpose: Verify that the IUT retransmits an I frame or sends an RR/P=1 in response to an RR/F=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I	L700	RR0_NR(N_R)		P=0
#		!L_UC(N_R, V_R)	(P)	P=1, retrans mit I
+DL80_VERIFICATION +DL_POSTAMBLE ?RR		RR1_UC(V_R)	(P)	P=1
+DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
			(F)	
			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
<p>Reference: LAPD Ref. 5.6.5.5.1/0.70_V2.2</p> <p>Identified after: 0.70_V2.2</p> <p>Purpose: Verify that the IUT sends an RR1 in response to an RR1 received with VIA) NR(V) received in Multiple Frame Established state (V.0). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_FRAMESET +DL70_11_SETUP (N_R: V_S 1) :RR START T200 :RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] # </pre>	L700	RR1 NR(N_R) RR1 UR(V_R)	P=1 (P)	P=1 Test not run
<p>Extended Comments: Q.921 Ref. 5.6.5.5</p> <p>Executed if IUT is able to send I frame on request.</p>				

Test Case Dynamic Behaviour				
<p>Reference: LAPD Ref. 5.6.5.5.1/0.70_V2.2</p> <p>Identified after: 0.70_V2.2</p> <p>Purpose: Verify that the IUT retransmits an I frame in response to an RR1 received with VIA) NR(V) received in Multiple Frame Established state (V.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_FRAMESET +DL70_11_SETUP (N_R: V_S 1) :RR START T4 :R +DL80_VERIFICATION +DL_POSTAMBLE :RR +DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T4 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] # </pre>	L700	RR0 NR(N_R) I1 UR(N_R, V_R) RR1 UR(V_R)	(P) (P) (F) (F) I	P=0 P=1, retransmit I frame P=1 Test not run
<p>Extended Comments: Q.921 Ref. 5.6.5.5</p> <p>Executed if the IUT is able to send I frame on request.</p>				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V29				
Identifier: DL70_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_IL_SETUP (N_R:=V_S-1) !RR START Td ?I #	L700	RR0_NR(N_R)		F=0
+DL80_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	P=1, retrans mit I
+DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #		RR1_UC(V_R)	(P)	P=1
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				
			(F)	
			(F)	
			I	Test not run

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V30				
Identifier: DL70_V30				
Purpose: Verify that the IUT sends an RR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !REJ(V_A:=V_S) #		REJ1_NC(V_S)		P=1, N(R) set to V(S) of IUT
START T200 ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAMP-MTCV:70/10/V1				
Label: L70_V1				
Purpose: Verify that the IUT sends nothing in response to a REJ=0 command received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !REJ(V_A:=V_S)		REJ0_N(V_S)		F=0, N(R) set to V(S) of IUT
START TM ?TIMEOUT TM +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700		(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAMP-MTCV:70/10/V1				
Label: L70_V1				
Purpose: Verify that the IUT does not respond to a REJ=0 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !REJ(V_A:=V_S)		REJ0_N(V_S)		F=0, N(R) set to V(S) of IUT
START TM ?TIMEOUT TM +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700		(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V33				
Identifier: DL70_V33				
Purpose: Verify that the IUT sends an RR/P=1 and retransmits an I frame in response to an REJ/P=1 command with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_I1_SETUP (N_R := V_S-1) !REJ START T200 ?RR START Td ?I	L700	REJ1_NC(N_R)	P=1	
	L701	RR1_UR(V_R)	F=1	
		IP_UC(N_R,V_R,?)	(P)	Retransmit I, P=don't care
#				
#				
+DL70_VERIFICATION +DL_POSTAMBLE GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				

4 Abstract Test Suite - Part I

0841

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V34				
Identifier: DL70_V34				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_I1_SETUP (N_R := V_S-1) !REJ START Td ?I	L700	REJ0_NC(N_R)	(P)	P=0 Retransmit I frame, P=don't care
#				
#				
#				
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				

4 Abstract Test Suite - Part I

0842

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPDINFO/STU/DL70_V35				
Identify: DL70_V35				
Purpose/Verify that the IUT retransmits an I frame in response to an RCT F=0 response with V(A)<N(R)<V(2) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_A_IFRAME) +DL70_PREAMBLE +DL70_I1_SETUP (N_R::=V_S-1) !RR START TM ?I	L700	REL0_NR(N_R)	(F)	F=0 Retransmit I frame. F don't care
# # #				
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T0 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F)	
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPDINFO/STU/DL70_V36				
Identify: DL70_V36				
Purpose/Verify that the IUT sends a RR(F=0) in response to an RR(R/P=1) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR(P=1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RRR(V_A::V_S)		RRR_NC(V_S)		P=1,N(1) set to V(5) of IUT
# #				
START T200 ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RRR_UR(V_R)	(F)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V39				
Identifier: DL70_V39				
Purpose: Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
# # +DL70_PREAMBLE !RNR(V_A::=V_S) START T200 ?TIMEOUT T200 START Td ?RR !RR +DL74_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700	RNR0_NR(V_S) RR1_UC(V_R) RR1_NR(V_S) RR1_UC(V_R) RR1_NR(V_S)	(P) (I) (I) (I) (F)	F=0, N(R) set to V(S) of IUT P=1 F=1 P=1 F=1

Extended Comments: Q.921 Ref. 5.6.5
 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V43 Identifier:DL70_V43 Purpose:Verify that the IUT does not respond to an RNR/F=0 response with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_I1_SETUP (N_R:=V_S-1) !RNR		RNR0_NR(N_R)		F=0,V(A)<=N(R)<V(S)
# START T200 ?TIMEOUT T200 START Td ?RR !RR	L700		(P)	P=1 F=1
+DL74_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(I)	
?RR !RR +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RR1_UC(V_R) RR1_NR(V_S)	(I)	P=1 F=1
#			(F)	
Extended Comments:Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V44 Identifier:DL70_V44 Purpose:Verify that the IUT sends a RR/F=1 in response to an I frame received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !I(V_A:=V_S)		I1_NC(V_R, V_S)		P=1,N(R) set to V(S) N(S) set to V(R) of IUT
# # # #				
START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.2.1				

Test Case: Dynamic Behaviour				
Reference: LAMPD_V40, M01: /0, DL70 V40				
<p>Behaviour: LAMPD_V40 V40</p> <p>For all (V_A: V_S) in response to an I/P, the IUP sends an RR/P 0, set on I/P V, in response to an I/P V received in Multiple Frame Established state (7,0). The IUP is expected to remain in Multiple Frame Established state after sending RR/P 0.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_POSTABLE ?I (V_A: V_S)		I0_N(V_R, V_S)		P=0, N(R) set V(5), N to V(R) at IUP
START T200 (V_R: V_R+1)				
TRR +DL70_VERIFICATION +DL_POSTABLE ?I	L700	RR0_DR(V_R)	(F)	F=0
+DL70_VERIFICATION +DL_POSTABLE +DL70_UNEXPECTED GOTO L700 ?TIMEOUT T200 +DL_POSTABLE ?OTHERWISE +DL_POSTABLE		I0_DR(V_S, V_R)	(P)	F=0
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case: Dynamic Behaviour				
Reference: LAMPD_V40, M01: /0, DL70 V40				
<p>Behaviour: LAMPD_V40 V40</p> <p>For all (V_A: V_S) in response to an I/P, the IUP sends an RR/P 1 in response to an I/P V, in response to an I/P V received in Multiple Frame Established state (7,0). The IUP is expected to enter Multiple Frame Established state after sending RR/P 1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_POSTABLE (N_S: V_R+1) ?I (V_A: V_S)		I1_N(N_S, V_S)		P=1, N(R) set V(5), N (5) not set to V(R) of IUP
START T200 TRR +DL70_VERIFICATION +DL_POSTABLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE	L700	RR1_DR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V47				
Identifier:DL70_V47				
Purpose:Verify that the IUT sends a REJ/F=0 in response to an I/P=0 with N(S)<V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject recovery state after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_S:=V_S+1) ! I (V_A:=V_S)		I0_NC(N_S, V_S)		P=0,N(R) set to V(S) N(S) not set V(R) of IUT
#				
#				
#				
START T200				
?REJ +DL71_VERIFICATION +DL_POSTAMBLE GOTO L700	L700	REJ0_UR(V_R)	(P)	F=0
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V48				
Identifier:DL70_V48				
Purpose:Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_2I_SETUP (N_R:=V_S-1) ! I		I1_NC(V_R, N_R)		P=1,V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L700	L700	RR1_UR(V_R)	(P)	F=1
?DL70_UNEXPECTED ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
[NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V51 Identifier:DL70_V51 Purpose:Verify that the IUT sends a REJ/F=0 in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<>V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_2I_SETUP (N_R::=V_S-1,N_S::=V_R+1) !I </pre>		IO_NC(N_S, N_R)		P=0,V(A)<N (R)<V(S), N (S) not set to V(R) of IUT
<pre> START T200 ?REJ +DL71_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)] </pre>	L700	REJ0_UR(V_R)	(P)	F=0
			(F)	
			(F)	
			I	Test not run

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_V52 Identifier:DL70_V52				
Purpose:Verify that the IUT sends a RR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_1I_SETUP (N_R:=V_S-1) ; I START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L700 +DL70_UNEXPECTED ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L700	IL_NC(V_R, N_R)	(P)	P=1,V(A)=N (R)<V(S), N (S) set to V(R) of IUT
			(F)	
			(F)	
			I	Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70 V5.1 Identifies: DL70 V5.1 Purpose: Verify that the IUT sends a RR/F=0 or an L/F=0 in response to an I/F=0 received with V(A)=N(R) < V(S) in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0 or L/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_L1_SETUP (N_R := V_S-1) ; I		10_NC(V_R, N_R)		F=0, V(A)=N(R) < V(S), N(S) set to V(R) of IUT
START T200 (V_R := V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE ? I	L700	RR0_OR(V_R)	(P)	F=0
+DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		10_UC(V_S, V_R)	(P)	P=0
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70 V5.4 Identifies: DL70 V5.4 Purpose: Verify that the IUT sends a REJ/F=1 in response to an L/P=1 frame with V(A)=N(R) < V(S) and N(S) < V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending RR/L/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_L1_SETUP (N_R := V_S+1, N_S := V_R+1) ; I		11_NC(N_S, N_R)		F=1, V(A)=N(R) < V(S), N(S) not set to V(R) of IUT
START T200 ?REJ +DL71_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L700	REJ1_OR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V55				
Identifier: DL70_V55				
Purpose: Verify that the IUT sends a REJ/F=0 in response to an I/P=0 frame with V(A)=N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_II_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I				P=0, V(A)=N (R)<V(S), N (S) not set to V(R) of IUT
START T200 ?REJ +DL71_VERIFICATION +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L700	IO_NC(N_S, N_R) KEJ0_UR(V_R)	(P) (F) (F) I	F=0 Test not run
#				
#				
#				
#				
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S70/DL70_V56				
Identifier: DL70_V56				
Purpose: Verify that the IUT sends an RR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.0). The IUT is expected to enter Timer Recovery state after sending RR/P=1 or I/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_II_SETUP (N_S:=V_S-1) START Td ? I	L700	II_UC(N_S, V_R)	(F)	P=1
# +DL80_VERIFICATION +DL_POSTAMBLE ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RR1_UC(V_R)	(P)	P=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_N02				
Identifier:DL70_N02				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.0). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::=V_S*(K+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RR0_NC(N_R) SABME1_UC	(P)	P=0 P=1
			(F)	
			(F)	

Test Case Dynamic Behaviour				
Reference: LAPD RR0: L700 DL700_R03 Identifier: DL700_R03 Purpose: Verify that the IUT sends a SAMME/P-1 in response to an RR/F-1 response with an N(R) error received in Multiple Frame Establishment state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL700_PREAMBLE (N_R: V_20 (K+1)) ERR START TR ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL700_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TR +DL_POSTAMBLE	L700	RRL_NRR(N_R) SAMME_UC	(F) (F) (F) (F)	F-1 P-1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD RR0: L700 DL700_R04 Identifier: DL700_R04 Purpose: Verify that the IUT sends a SAMME/P-1 in response to an RR/F-0 with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL700_PREAMBLE (N_R: V_20 (K+1)) ERR START TR ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL700_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TR +DL_POSTAMBLE	L700	RRL_NRR(N_R) SAMME_UC	(F) (F) (F)	F-0 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour			
Reference: LAPD/MFO/S70/DL70_N06			
Identifier: DL70_N06			
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.			
Default:			
Behaviour Description	Label	Constraints Reference	V
+DL70_PREAMBLE (N_R::=V_S*(K+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	REJ0_NC(N_R) SABME1_UC	 (P)
			P=0 P=1
			(F) (F)

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/REQ/570/DL70_N07				
Identifier: DL70_N07				
Purpose: Verify that the IUT sends a SAMME/P 1 in response to a RLJ/F 1 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::V_S(K+1)) !REQ START TN ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TN +DL_POSTAMBLE	L700	REQ1_NR(N_R) SAMME_UC	(F) (F)	P=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/REQ/570/DL70_N08				
Identifier: DL70_N08				
Purpose: Verify that the IUT sends a SAMME/P 1 in response to a RLJ/F 0 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::V_S(K+1)) !REQ START TN ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TN +DL_POSTAMBLE	L700	REQ1_NR(N_R) SAMME_UC	(F) (F)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MFO/570/DL70_N11 Identifier: DL70_N11 Purpose: Verify that the IUP sends a SABME/P-1 in response to an RNR/F-1 response with an N(R) error received in Multiple Frame Established state (7.0). The IUP is expected to enter Awaiting Establishment state after sending SABME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R: V_S(K+1)) ?RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	P-1 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MFO/570/DL70_N12 Identifier: DL70_N12 Purpose: Verify that the IUP sends a SABME/P-1 in response to an RNR/F-0 Response with an N(R) error received in Multiple Frame Established state (7.0). The IUP is expected to enter Awaiting Establishment state after sending SABME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R: V_S(K+1)) ?RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RNR0_NR(N_R) SABME1_UC	(P) (F) (F)	P-0 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S70/DL70_N13 Identifier:DL70_N13 Purpose:Verify that the IUT sends an RR/P=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::=V_S+(K+1)) !I		!I_NC(V_F, N_R)		P=1
# START T200 (V_R::=V_R+1) ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700 L701	RR1_UR(V_R) SABME1_UC	(P) (P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

4 Abstract Test Suite - Part I

0877

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S70/DL70_N14 Identifier:DL70_N14 Purpose:Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::=V_S+(K+1)) !I		I0_NC(V_R, N_R)		P=0
# (V_R::=V_R+1) START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	SABME1_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.8.2				

4 Abstract Test Suite - Part I

0878

LAPD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD MFC 3.70 P.0 N.6</p> <p>Abstract: DL70 N.6</p> <p>Purpose: Verify that the IUT sends a REF P 1 and sends a SABME/P 1 in response to an I/P 1 with an N(R) error and N(S) = V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME P 1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL70_PREAMBLE (N_S := V_R+1, N_R := V_S+(K+1)) !1		11_NC(N_S, N_R)		P 1
START T200 ?REF START T1 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700 L701	REF1_UR(V_R) SABME_UC	 (P)	 P 1 P 1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD MFC 3.70 DL70 N.6</p> <p>Abstract: DL70 N.6</p> <p>Purpose: Verify that the IUT sends a REF/P 0 and a SABME/P 1 in response to an I/P 0 with an N(R) error and N(S) = V(R) received in Multiple Frame Established state (7.0). The IUT is expected to Awaiting Establishment state after sending SABME P 1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL70_PREAMBLE (N_S := V_R+1, N_R := V_S+(K+1)) !1		10_NC(N_S, N_R)		P 0
START T200 ?REF START T1 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700 L701	REF0_UR(V_R) SABME_UC	 (P)	 P 0 P 1 P 1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_N17				
Identifier:DL70_N17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	SABME_TL1_NC SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments:O.921 Ref. 5.7.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_N18				
Identifier:DL70_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !DISC_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	DISC_TL1_NC SABME1_UC	(P)	P=1 P=1
			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 5.7.1				

Test Case: Dynamic Behaviour				
Reference LAP: MFC 2.0.0, 5.7.1 NR				
Transition: DL70 NR				
Purpose: Verify that the DUT sends a SAMME/F-1 in response to a DA-1 incorrect length received in Multiple Frame Establishment state (C.3). The DUT is expected to enter Await(1) Establishment state after sending SAMME/F-1.				
De-label:				
Behaviour Description	Label	Conformance Reference	V	Comments
+DL70_PREAMBLE +DA_TU +START_N +SAMME +DL70_VERIFICATION +DL70_POSTAMBLE +DL70_UNEXPECTED +GOTO_L700 +OTHERWISE +DL70_POSTAMBLE +TIMEOUT_T3 +DL70_POSTAMBLE	1700	DA_TU NR SAMME/F-1	(F) (F)	F-1 F-1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case: Dynamic Behaviour				
Reference LAP: MFC 2.0.0, 5.7.1 NR				
Transition: DL70 NR				
Purpose: Verify that the DUT sends a SAMME/F-1 in response to a DM of incorrect length received in Multiple Frame Established state (C.3). The DUT is expected to enter Await(1) Establishment state after sending SAMME/F-1.				
De-label:				
Behaviour Description	Label	Conformance Reference	V	Comments
+DL70_PREAMBLE +DM_TU +START_N +SAMME +DL70_VERIFICATION +DL70_POSTAMBLE +DL70_UNEXPECTED +GOTO_L700 +OTHERWISE +DL70_POSTAMBLE +TIMEOUT_T3 +DL70_POSTAMBLE	1700	DM_TU NR SAMME/F-1	(F) (F)	F-1 F-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO S to DL70 N23 Identifier: DL70_N23 Purpose: Verify that the IUT sends a SABME/P-1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RNR_TL # START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L700	RNR_TLL_NC (V_S) SABME1_UC	 (P) (F) (F)	P-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO S to DL70 N24 Identifier: DL70_N24 Purpose: Verify that the IUT sends a SABME/P-1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !REJ_TL # START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L700	REJ_TLL_NC (V_S) SABME1_UC	 (P) (F) (F)	P-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S70/DL70_N25				
Identifier:DL70_N25				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE ! I_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	I_TL1_NC(V_R, V_S) SABME_UC	(F) (F) (F)	F=1 F=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S70/DL70_N26				
Identifier:DL70_N26				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !UNDEF START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	UNDEF1_NC SABME_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Reference: LAPD-921 Ref. 5.7.1				
Id: 0891				
Purpose: Verify that the IUT sends a SAMF P-1 in response to a frame with an invalid F field received in Multiple Frame Established state of 0). The IUT is expected to enter Await in Establishment state after sending SAMF P-1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
+DL70_PREAMBLE +SAMF_TL START 00 +SAMF +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE	L700	SAMF_TL_N' SAMF_TL_C	P-1 (P)	P-1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Reference: LAPD-921 Ref. 5.8.7				
Id: 0892				
Purpose: Verify that the IUT does not respond to an RR/P-1 response received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
+DL70_PREAMBLE +RR(V_A: V_5)		RR1_NRR(V_5)		P-1, N(R) Set to V(5) of IUT
# # START 00 +TIMEOUT 00 +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 +DL_POSTAMBLE	L700		(P)	(P)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_I02				
Identifier:DL70_I02				
Purpose:Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL70_2I_SETUP (N_R::=V_S-1) !RR(V_A:=N_R) START Td ?I +DL80_VERIFICATION +DL_POSTAMBLE ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L700	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	 (P) (P) (F) (F) I	 F=1 P=1, retransmit I P=1 Test not run
Extended Comments:Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDU or change state when a MDL_ERR_INDICATION(A) is generated.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S70/DL70_I03				
Identifier:DL70_I03				
Purpose:Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_1I_SETUP (N_R::=V_S-1) !RR START Td ?I +DL80_VERIFICATION +DL_POSTAMBLE ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L700	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	 (P) (P) (F) (F) I	 F=1 P=1, retransmit I P=1 Test not run
Extended Comments:Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: APD_MPD_570 Ref. 5.8.7.4				
Description: Verify that the IUT does not respond to a received request received in Multiple Frame Established state (730). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE +REQ(V_A:=V_S)		REQ_NR(V_S)		F 1, N40 GOTO 730 at IUT
# # START TR ?TIMEOUT TR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE	L700		(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.7				

Test Case Dynamic Behaviour				
Reference: APD_MPD_570 Ref. 5.8.7.5				
Description: Verify that the IUT retransmits an I frame in response to an IUT response with V(A)=N(R)+V(S) received in Multiple Frame Established state. The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_FRAME} +DL70_PREAMBLE +DL70_UNEXPECTED (N_R:=V_S+1) +REQ START TR ?I		REQ_NR(N_R)		F 1
# # +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TR +DL_POSTAMBLE {NOT(CAN_SEND_A_FRAME)}	L700	IF OK(N_R,V_R, ,?)	(P)	Retransmit I, P don't care
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.7				
Executed if IUT is able to send I frame on request.				

I APD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAMP/MFO/270, DL70, 106 Identified: DL70, 106 Purpose: Verify that the IUT sends nothing in response to an RNR-F-1 response received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
*DL70_PREAMBLE *RRR(V_A: V_S)		RRR_NR(V_S)		F-1, N(R) Set to V(S) of IUT
#				
*START T200 *TIMEOUT T200 *START T1 *RRR *RRR *DL70_VERIFICATION *DL_POSTAMBLE *OTHERWISE *DL_POSTAMBLE *TIMEOUT T1 *DL_POSTAMBLE *RRR *RRR *DL_POSTAMBLE *DL70_UNEXPECTED *OTHERWISE *DL_POSTAMBLE	L700	RRR_NR(V_P) RRR_NR(V_S)	(1) (1) (1) (1) (1) (1) (1)	F-1 F-1 (1) (1) (1) (1) (1)
Extended Comments: L700, Set to V_S				
*Set to V_S: Set to V_S: 1 from the IUT to Peer *The IUT is expected to enter Multiple Frame Established state				

I APD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAMP/MFO/270, DL70, 107 Identified: DL70, 107 Purpose: Verify that the IUT sends nothing in response to an RNR-F-1 response with V(A)=N(R)+V(S) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
*AN_SEND_A_FRAME *DL70_PREAMBLE *DL70_11_SETUP (N_R: V_S)		RRR_NR(N_R)		F-1, V(A)=N (R)+V(A)
#				
*START T200 *TIMEOUT T200 *START T1 *RRR *RRR *DL70_VERIFICATION *DL_POSTAMBLE *OTHERWISE *DL_POSTAMBLE *TIMEOUT T1 *DL_POSTAMBLE *RRR *RRR *DL_POSTAMBLE *DL70_UNEXPECTED *OTHERWISE *DL_POSTAMBLE	L700	RRR_NR(V_S) RRR_NR(V_S)	(1) (1) (1) (1) (1) (1)	F-1 F-1 (1) (1) (1) (1)
Initial state: A Frame				
#			(F)	Test Not Run
Extended Comments: L700, Set to V_S				
*Set to V_S: Set to V_S: 1 from the IUT to keep *The IUT is expected to enter Multiple Frame Established state				

Test Case Dynamic Behaviour				
Reference: LAPD MOD. 5.1.1 DL71_V03				
Label: DL71_V03				
Purpose: Verify that the IUT can send a SABME/P=1 in Multiple Frame Establishment state after sending SABME/P=1. The IUT is expected to enter Activation Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_SABME) +DL71_PREAMBLE +IUT_SABME START Type +SABME +DL71_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L710 +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Type +DL_POSTAMBLE [NOT (CAN_SEND_SABME)]	L710		(F)	REQ. SAME P=1 P=1
#			(F)	Test not run

Extended Comments: Q.921 Ref. 5.5.1.2

Executed if IUT is able to send SABME/P=1 on request.

Test Case Dynamic Behaviour				
Reference: LAPD MOD. 5.1.1 DL71_V03				
Label: DL71_V03				
Purpose: Verify that the IUT sends an I Frame when V(S)=V(A)+k (ie. window is open) in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending an I Frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_A_IFRAME) +DL71_PREAMBLE +IUT_I1 +I1 Type +I1 (V_S:=V_S+1) +DL71_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L710 +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Type +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]	L710	IO_UC(V_S, V_R) RR1_UC(V_R) RR1_NR(V_S)	(P)	P=0 P=1 P=1
#			(F)	Test not run

Extended Comments: Q.921 Ref. 5.6.1

Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

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Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V08				
Identifier: DL71_V08				
Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame established state after sending the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	SABME1_NC UA1_UR	 (P)	P=1 F=1

Extended Comments:Q.921 Ref. 5.5.2

Test Case Dynamic Behaviour					
Reference:LAPD/WFO/S71/DL71_V04					
Identifier:DL71_V04					
Purpose:verify that the IUT does not send an I frame (queued) when V (S)=V(A)+k (window is closed) in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending no response.					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_WC_SETUP START Td ?RR (N_R::=V_S) !RR	L710	RR1_UC(V_R)		P=1
#	START Td ?I(N_R::=I.N_S)	L711	RR1_NR(N_R)		F=1,ack all I frames
#:=V_S)	(V_S::=V_S+1, N_R: !RR		I0_UC(V_S, V_R)	(P)	P=0
#+DL71_VERIFICATION			RR0_NR(N_R)		F=0
#+DL_POSTAMBLE	+DL71_UNEXPECTED GOTO L711 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
	+DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
	[NOT(CAN_SEND_IFRAMES)]			(F)	
#				(F)	
				I	Test not run

extended Comments:0.921 Pf. 5.6.1

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LAPP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPP/MQ/87/4/01_V1.0				
Identified: DL71_V1.0				
Purpose: Verify that the IUT sends a UA/F-0 in response to a SAME-F-0 received in Multiple Frame Established state (F-0). The IUT is expected to remain in Multiple Frame Established state after sending UA/F-0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !SAME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	SAME_Q_NC UA0_UN	F=0 (F)	F=0
Extended Comments: Q.921 Ref. 5.5.2				

LAPP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPP/MQ/87/4/01_V1.2				
Identified: DL71_V1.2				
Purpose: Verify that the IUT sends a UA/F-1 in response to a DISC/P-1 received in Multiple Frame Established state (F-1). The IUT is expected to enter TEL Assigned state after sending UA/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	DISC1_NC UA1_UN	(P)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MPO, §71/DL71_V1c				
Identifier: DL71_V1c				
Purpose: Verify that the IUT sends nothing in response to a PM F1 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !PM START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710	PM1_NR	(F)	F1
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MPO, §71/DL71_V17				
Identifier: DL71_V17				
Purpose: Verify that the IUT sends a SAMME/P1 after receiving a FRMR requesting an RR in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !FRMR RR START T200 ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	FRMR_RR1_NR SAMME1_UC	(P) (F) (F)	P1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V20				
Identifier: DL71_V20				
Purpose: Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE :RR(V_A::=V_S)		RR1_NC(V_S)		P=1, N(R) set to V(S) of IUT
# # START T200 ?RR +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR1_OR(V_R)	(P)	F=1
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V21				
Identifier: DL71_V21				
Purpose: Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE :RR(V_A::=V_S)		RR0_NC(V_S)		P=0, N(R) set to V(S) of IUT
# # START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710		(P)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_V25				
Identifier:DL71_V25				
Purpose:Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I	L710	RR0_NC(N_R)	(P)	P=0
#				P=1, retrans mit I frame
+DL81_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	
+DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RR1_UC(V_R)	(P)	P=1
#				(F)
				(F)
			I	Test not run
Extended Comments:Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_V26				
Identifier:DL71_V26				
Purpose:Verify that the IUT retransmits an I frame in response to an RR/F=0 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I	L710	RR0_NR(N_R)	(P)	F=0
#				P=1, retrans mit I
+DL81_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	
+DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RR1_UC(V_R)	(P)	P=1
#				(F)
				(F)
			I	Test not run
Extended Comments:Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V29				
Identifier: DL71_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_IL_SETUP (N_R::=V_S-1) !RR START Td ?I #	L710	RR0_NR(N_R)	(P)	F=0
+DL81_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	P=1, retransmit I
+DL81_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td [NOT(CAN_SEND_A_IFRAME)] #		RR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: 0.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V30				
Identifier: DL71_V30				
Purpose: Verify that the IUT sends an RR/F=1 in response to a REJ/P=1 command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !REJ(V_A::=V_S) #		REJ1_NC(V_S)		P=1, N(R) set to V(S) of IUT
START T200 ?RR +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: 0.921 Ref. 5.6.4				

LAPD Conformance testing

Test Case Dynamic Behaviour				
Reference: LAPD-REQ-001-002-V11				
Identified: 0071-V1				
Purpose: Verify that the IUT sends nothing in response to a valid send command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL71_PREAMBLE PREL(V_A::V_S)		REQ0_N(V_S)		F=0, N(R) set to V(S) at IUT
START TM TIMEOUT TM +DL71_VERIFICATION +DL_POSTABLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTABLE	L710		(F)	
			(F)	
Extended Comments: 0.921 Ref. 5.6.4				

LAPD Conformance testing

Test Case Dynamic Behaviour				
Reference: LAPD-REQ-001-002-V11				
Identified: 0071-V1				
Purpose: Verify that the IUT does not respond to a valid send command received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL71_PREAMBLE PREL(V_A::V_S)		REQ0_NR(V_S)		F=0, N(R) set to V(S) of IUT
START TM TIMEOUT TM +DL71_VERIFICATION +DL_POSTABLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTABLE	L710		(F)	
			(F)	
Extended Comments: 0.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD/MFO/S71/DL71_V16</p> <p>Identified: DL71_V16</p> <p>Purpose: Verify that the IUT transmits an I frame in response to an RR/F=0 response with V(A)=N(R)=V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_I1_SETUP (N_R:=V_S-1) !RRF START T1 ?1	L710	REJO_NR(N_R) IP_UC(N_R,V_R,?)	(F)	F=0 Retransmit I frame, p-don't cure
+DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
<p>Reference: LAPD/MFO/S71/DL71_V16</p> <p>Identified: DL71_V16</p> <p>Purpose: Verify that the IUT sends a RR/F=1 in response to an RRR/P=1 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established peer busy state after sending RR/F=1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RRR(V_A:=V_S)		RRR_NC(V_S)		P=1, N(R) set to V(S) of IUT
# # START T200 ?RR +DL75_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR1_OK(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V37 Identifier: DL71_V37 Purpose: Verify that the IUT sends nothing in response to an RNR P=0 received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RNR(V_A::=V_S) # # START T200 ?TIMEOUT T200 START T3 ?RR !RR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710	RNR0_NR(V_S) RR1_UC(V_R) RR1_NR(V_S) RR1_UC(V_S) RR1_NR(V_S)	(F) (F) (I) (I) (I) (I) (F)	P=0, N(R) sec to V(S) of IUT P=1 F=1 P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

4 Abstract Test Suite - Part I

0925

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V39 Identifier: DL71_V39 Purpose: Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RNR(V_A::=V_S) # # START T200 ?TIMEOUT T200 START T3 ?RR !RR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710	RNR0_NR(V_S) RR1_UC(V_R) RR1_NR(V_S) RR1_UC(V_R) RR1_NR(V_S)	(P) (I) (I) (I) (I) (F)	P=0, N(R) sec to V(S) of IUT P=1 F=1 P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

5 Abstract Test Suite - Part I

0926

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO: 571 DL71 V40				
Identifier: DL71 V40				
Purpose: Verify that the IUT sends an RR P=1 in response to an RR P=1 with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREFRAME +DL71_L1_SETUP (N_R::V_S=1) !RRR		RRR1_NC(N_R)		P=0, V(A) < N(R) < V(S)
START T200 ?RR +DL75_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]	L710	RR1_UN(V_R)	(P)	P=1 F=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFO: 571 DL71 V41				
Identifier: DL71 V41				
Purpose: Verify that the IUT sends nothing in response to an RRR/P=0 with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREFRAME +DL71_L1_SETUP (N_R::V_S=1) !RRR		RRR0_NC(N_R)		P=0, V(A) < N(R) < V(S)
START T200 ?TIMEOUT T200 START T3 ?RR !RR	L710	RR1_UC(V_R) RR1_NR(V_S)	(P)	P=1 F=1
#			(I)	
+DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]			(I)	
			(I)	
			(I)	P=1 F=1
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V43 Identifier: DL71_V43 Purpose: Verify that the IUT does not respond to an RNR/F=0 response with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.1), the IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_1I_SETUP (N_R::=V_S-1) !RNR # START T200 ?TIMEOUT T200 START Td ?RR !RR #+DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L710	RNR0_NR(N_R) RR1_UC(V_R) RR1_NR(V_S) RR1_UC(V_R) RR1_NR(V_S)	(P) (I) (I) (I) (F) I	F=0, V(A) < N(R) < V(S) P=1 F=1 Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V44 Identifier: DL71_V44 Purpose: Verify that the IUT sends an RR/F=1 in response to an I frame received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !I(V_A::=V_S) # # # # # START T200 (V_R::=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	I1_NC(V_R, V_S) RR1_UR(V_R)	(P) (F) (F)	P=1, N(R) set to V(S), N(S) set to V(R) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.2.1				

LAMP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAMP/MSC.1/1/1 V4.6				
Identification: DL71_V46				
Purpose: Verify that the IUT sends an RR P=0 or 1 P=0 in response to an I P=0 received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR P=0 or 1 P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !!(V_A::V_S)		IO_NC(V_R, V_S)		P=0, N(R) set to V(S), N(S) set to V(R) < 1 IUT
START T200 (V_R::V_R+1)				
?RR +DL70_VERIFICATION +DL_POSTAMBLE	L710	RR0_OR(V_R)	(P)	P=0
?I		IO_UC(V_S, V_R)	(P)	P=0
+DL70_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

LAMP Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAMP/MSC.1/1/1 V4.6				
Identification: DL71_V46				
Purpose: Verify that the IUT sends an RR P=1 in response to an L/P=1 with N(S)=V(R) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending RR P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !!(V_A::V_S)		IO_NC(N_S, V_S)		P=1, N(R) set to V(S), N(S) not set to V(R) of IUT
START T200 ?RR +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR1_OR(V_R)	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S1/DL71_V47				
Identifier: DL71_V47				
Purpose: Verify that the IUT sends nothing in response to an I/P=0 with N(S)≠V(R) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Establishment state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_S:=V_S+1) !!(V_A:=V_S)		I0_NC(N_S, V_S)		P=0, N(R) Set to V(S) , N(S) not set to V(R) of IUT
# # # #				
START TD ?TIMEOUT TD +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710		(P) (F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S1/DL71_V48				
Identifier: DL71_V48				
Purpose: Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)≠N(R)≠V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_21_SETUP (N_R:=V_S 1) !!		I1_NC(V_R, N_R)		P=1, V(A)≠N (R)≠V(S), N (S) set to V(R) of IUT
# # #				
START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L710	RR1_UR(V_R)	(P) (F) (F)	F=1 Test not run
#			I	
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MPD/5.1/DL71_V49				
Identifier: DL71_V49				
Purpose: Verify that the IUT sends a RR/F=0 or an I/F=0 in response to an I/P=0 received with V(A)-N(R)-V(S) in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=0 or I/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_21_SETUP (N_R: V_S_1) !!		I0_NC(V_R, N_R)		F=0, V(A)-N(R)<V(S), N(S) set to V(R) of IUT
START T200 (V_R: V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE	L710	RR0_UR(V_R)	(P)	F=0
?1 +DL70_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		I0_UC(N_R, V_R)	(P)	P=0
#			(F)	Test not run
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MPD/5.1/DL71_V50				
Identifier: DL71_V50				
Purpose: Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)-N(R)-V(S) and N(S)-V(R) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_21_SETUP (N_R: V_S_1, N_S: V_R+1) !!		I1_NC(N_S, N_R)		P=1, V(A)-N(R)<V(S), N(S) not set to V(R) of IUT
START T200 ?RR +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L710	RR1_UR(V_R)	(P)	F=1
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

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Allow for RR or I due to expiry of the IUT's T200.

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_V51				
Identifier:DL71_V51				
Purpose:Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)=N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_2I_SETUP (N_R:=V_S-1,N_S:=V_R+1) !I		I0_NC(N_S, N_R)		P=0,V(A)<N (R)<V(S), N (S) not set to V(R) of IUT
START T200 (T200value - ?TIMEOUT T200 START T200 ?RR	L710	RR1_UC(V_R)	(P)	P=1, Allow poll for T200 expiry
+DL81_VERIFICATION +DL_POSTAMBLE ?I		I1_UC(N_R, V_R)	(P)	P 1, Allow I for T200 expiry
+DL81_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE			(F)	
[NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.1				

Continued on next page

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_V52				
Identifier:DL71_V52				
Purpose:Verify that the IUT sends a RR/P=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established state after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL70_1I_SETUP (N_R:=V_S-1) !I		I1_NC(V_R, N_R)		P=1,V(A)=N (R)<V(S), N (S) set to V(R) of IUT
START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L710	RR1_UR(V_R)	(P)	F=1
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V5.3				
Identifier: DL71_V5.3				
Purpose: Verify that the IUT sends a RR/F=0 or an I/F=0 in response to an I/F=0 received with V(A) N(R) S(V(S)) in Multiple Frame Established state (7.1). The IUT is expected to enter in Multiple Frame Established state after sending RR/F=0 or I/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_I1_SETUP (N_R:=V_S-1) ! I		I0_NC(V_R, N_R)		P=0, V(A) N (R) S(V(S)), N (S) set to V(R) of IUT
START T200 (V_R:=V_R+1) ?RR +DL70_VERIFICATION +DL_POSTAMBLE	L710	RR0_UR(V_R)	(P)	F=0
? I		I0_UC(V_S, V_R)	(P)	P=0
+DL70_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	Test not run
#			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_V5.4				
Identifier: DL71_V5.4				
Purpose: Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A) N(R) S(V(S)) and N(S) S(V(R)) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_I1_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I		I1_NC(N_S, N_R)		P=1, V(A)=N (R) S(V(S)), N (S) not set to V(R) of IUT
START T200 ?RR +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L710	RR1_UR(V_R)	(P)	P=1
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD/S71/DL71/V57				
Identifier: DL71/V57				
Purpose: Verify that the IUT sends an RR/P=1 after a T203 timeout occurs in Multiple Frame Established state (7.1). The IUT is expected to enter Timer Recovery state after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL71_PREAMBLE START T203 ?TIMEOUT T203 START T3 ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L711 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE [NOT(T203_IMPLEMENTED)]	L710 L711		(F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.10.3.3 Executed if IUT implements T203 timer.				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD/S71/DL71/V58				
Identifier: DL71/V58				
Purpose: Verify that the IUT sends an RNR/F=0 when it sets OWN_BUSY in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Own Busy state after sending RNR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL71_PREAMBLE +IUT!RNR> START Topr ?RNR +DL73_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L710 +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L710	RNR0_UK(V_R) RR1_UC(V_R) RR1_NR(V_R)	(P) (F) (F)	Set Own Busy F=0 P=1 F=1
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.6 Executed if IUT is able to set own busy on request.				

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N02				
Identifier: DL71_N02				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.1). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R::=V_S*(K+1) ; !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR0_NC (N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 3-4 for V1 No3				
Identifier: DL71 No3				
Purpose: Verify that the IUP sends a SAMME P-1 in response to an RR/P-1 response with an N(R) error received in Multiple Frame Establishment state (7.1). The IUP is expected to enter Awaiting Establishment state after sending SAMME P-1.				
Default:				
Behaviour Description	Label	Constraint's Reference	V	Comments
*DL71_PREAMBLE (N R: V, S+(K+1)) IRR START 'M ?SAMME *DL51_VERIFICATION *DL_POSTAMBLE *DL71_UNEXPECTED GOTO L710 ?OTHERWISE *DL_POSTAMBLE ?TIMEOUT 'M *DL_POSTAMBLE	L710	RR0_NR(N_R)	(F)	P-1
		SAMME UC	(F)	P-1
			(F)	
			(F)	

Extended Comment: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 3-4 for V1 No4				
Identifier: DL71 No4				
Purpose: Verify that the IUP sends a SAMME/P-1 in response to an RR/P-0 with an N(R) error received in Multiple Frame Established state (7.1). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraint's Reference	V	Comments
*DL71_PREAMBLE (N R: V, S+(K+1)) IRR START 'M ?SAMME *DL51_VERIFICATION *DL_POSTAMBLE *DL71_UNEXPECTED GOTO L710 ?OTHERWISE *DL_POSTAMBLE ?TIMEOUT 'M *DL_POSTAMBLE	L710	RR0_NR(N_R)	(F)	P-0
		SAMME UC	(F)	P-1
			(F)	
			(F)	

Extended Comment: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N06				
Identifier: DL71_N06				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R::=V_S+(K+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	REJ0_NC(N_R) SABME1_UC	(P)	P=0 P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N07 Identifier: DL71_N07 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R:=V_S*(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L710	REJ0_NR(N_R) SABME1_UC	(P) (P) (F) (F)	F=1 P=1
Extended Comment: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N08 Identifier: DL71_N08 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 Response with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R:=V_S*(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L710	REJ0_NR(N_R) SABME1_UC	(P) (P) (F) (F)	P=0 P=1
Extended Comment: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S71/DL71_N10 Identifier: DL71_N10 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an (NR) error received in the Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R:=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RNR0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

extended Comments: Q. 921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_RR0_011_T01_N11				
Identifier: DL71_N11				
Purpose: Verify that the IUP sends a SAMME/P-1 in response to an RR0/P-1 response with an NR0 error received in Multiple Frame Establishment state (7.1.1). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R: V_S*(K+1)) :RRR START T200 ?SAMME +DL51_VERIFICATION +DL71_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR01_NR(N_R) SAMME1_UC	(P)	F-0 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_RR0_011_T01_N11				
Identifier: DL71_N11				
Purpose: Verify that the IUP sends a SAMME/P-1 in response to an RR0/P-0 response with an NR0 error received in Multiple Frame Establishment state (7.1.1). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R: V_S*(K+1)) :RRR START T200 ?SAMME +DL51_VERIFICATION +DL71_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	RR00_NR(N_R) SAMME1_UC	(P)	F-0 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_NI3				
Identifier:DL71_NI3				
Purpose:Verify that the IUT sends an RR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R::=V_S+(K+1)) ! I		I1_NC(V_R, N_R)		P=1
#				
START T200 (V_R::=V_R+1) ?RR	L710	RR1_UR(V_R)		F=1
START Td ?SABME	L711	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L711 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE				(F)
?SABME		SABME1_UC	(P)	(F)
+DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_NI4				
Identifier:DL71_NI4				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE (N_R::=V_S+(K+1)) ! I		I0_NC(V_R, N_R)		P=0
#				
(V_R::=V_R+1) START Td ?SABME	L710	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N16 Identifier: DL71_N16 Purpose: Verify that the IUT sends an NK_P=1 and sends a SABME_P=1 in response to an I/P=1 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME_P=1. Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL71_PREAMBLE (N_S:=V_R+1, N_R:=V_S+(K+1)) !! # START T200 ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L711 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710 L711	!!_NC(N_S, N_R) RR1_UR(V_R) SABME1_UC SABME1_UC	P=1 P=1 (F) (F) (F) (F) (F) (F)	P=1 P=1 P=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_N16 Identifier: DL71_N16 Purpose: Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.1). The IUT is expected to Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL71_PREAMBLE (N_S:=V_R+1, N_R:=V_S+(K+1)) !! # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L710	!0_NC(N_S, N_R) SABME1_UC	(P) (F) (F)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S71/DL71_N18				
Identifier:DL71_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !DISC_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L710	SABME_TL1_NC SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/NFO/S71/DL71_N18				
Identifier:DL71_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !DISC_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L710	DISC_TL1_NC SABME1_UC	(P)	P=1 P=1
			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD-MTC-5.7.1, 5.7.1.1, 5.7.1.2				
Identifier: PL21_N1				
Purpose: Verify that the IUT sends a SAMME/P-1 in response to a UA-21 incorrect length received in Multiple Frame Establishment (7.1). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE +UA_TL +START_TM +SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 +OTHERWISE +DL_POSTAMBLE +TIMEOUT_TM +DL_POSTAMBLE	L710	UA_TL_NR SAMME_UC	(F) (P)	F-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD-MTC-5.7.1, 5.7.1.1, 5.7.1.2				
Identifier: DL71_R20				
Purpose: Verify that the IUT sends a SAMME/P-1 in response to a DM of incorrect length received in Multiple Frame Establishment (7.1). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE +DM_TL +START_TM +SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 +OTHERWISE +DL_POSTAMBLE +TIMEOUT_TM +DL_POSTAMBLE	L710	DM_TL_NR SAMME_UC	(P) (F) (F)	F-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_N21				
Identifier:DL71_N21				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !FRMR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L710	FRMR_TL1_NR SABME1_UC	(P)	P=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S71/DL71_N22				
Identifier:DL71_N22				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L710	RR_TL1_NC (V_S) SABME1_UC	(P)	P=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MR-0571 DL71_N23				
Identifier: DL71_N23				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RNR_TL		RNR_TLL_NC (V_S)		P=1
# START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L710	SABME_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MR-0571 DL71_N24				
Identifier: DL71_N24				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.1). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !REJ_TL		REJ_TLL_NC (V_S)		P=1
# START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L710	SABME_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD M0571/DL71_NC7				
Identifier: DL71_NC7				
Purpose: Verify that the IUT sends a SARME/P-1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.11). The IUT is expected to enter Awaiting Establishment state after sending SARME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !SARME_TL START TD ?SARME +DL51_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L710	SARME_TL1_NC SARME1_UC	P-1 (P)	P-1 P-1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD M0571/DL71_I01				
Identifier: DL71_I01				
Purpose: Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.11). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE !RR(V_A: : V_S) # # START TD TIMEOUT TM +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710	RR1_NR(V_S)		F-1, N(R) set to V(C) of IUT
			(P)	(P)
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_I02 Identifier: DL71_I02 Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL71_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L710	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	(P) (P) (P) (F) (F) I	F=1 P=1, retransmit I P=1 P=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDU or change state when a MDL_ERR_INDICATION(A) is generated.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_I03 Identifier: DL71_I03 Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL71_1I_SETUP (N_R:=V_S-1) !RR START Td ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L710	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	(P) (P) (P) (F) (F) I	F=1 P=1, retransmit I P=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MQ/S/1 DL71_104				
Identifier: DL71_104				
Purpose: Verify that the IUT does not respond to a REJ_1 frame received in Multiple Frame Established state (V,1). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL71_PREAMBLE REQ(V,A::V,S)		REJ_1_NR(V,S)		F=1, NR1 set to V(S) of REQ
#				
#				
START TN ?TIMEOUT TN +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE	L710		(P)	
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MQ/S/1 DL71_105				
Identifier: DL71_105				
Purpose: Verify that the IUT retransmits an I frame in response to an SET_F=1 response with V(A)<NR(V,S) received in Multiple Frame Established state (V,1). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAR_SEND_A_FRAME] SET_F=1_PREAMBLE +DL71_IL_1_PTH (NR:V,S,1) REQ ?START TN ?I +DL71_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TN +DL_POSTAMBLE [NOT(CAN_SEND_A_FRAME)]	L710	REJ_1_NR(N,R) IP_UC(N,R,V,R, ?)	(P)	F=1 Retransmit I, P=don't care
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S71/DL71_I07				
Identifier: DL71_I07				
Purpose: Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A)≠N(R)<V(S) received in Multiple Frame Established state (7.1). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_1FRAME] +DL70_PREAMBLE +DL71_11_SETUP (N_R:=V_S-1) :RNR START T200 ?TIMEOUT T200 START T3 ?RR :RR # </pre>	L710	RNR1_NR(N_R)		F=1, V(A)<N(R)<V(A)
<pre> #+DL74_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T4 +DL_POSTAMBLE :RR +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L710 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_1FRAME)] # </pre>		RR1_UC(V_S) RR1_NR(V_S)	(P) (I) (I) (F)	P=1 F=1 Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD RFC 377/72 V01				
Identifier: DL72 V01				
Purpose: Verify that the IUT can send a SABME P-1 in Multiple Frame Establishment state (7.2). The IUT is expected to enter Available establishment state after sending SABME P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comment #
[CAN_SEND_SABME] +DL72_PREAMBLE ->IUT(SABME) START Topr ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RNR !RR GOTO L720 +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)]	L720	SABME_UC RNR1_UC(V_R) RNR1_NR(V_S)	(P) P=1 F=1 (F) (F) I	REQ. SABME P-1 P-1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.5.1.2 Executed if IUT is able to send SABME/P-1 on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD RFC 377/72 V01				
Identifier: DL72 V01				
Purpose: Verify that the IUT sends an I frame when V(S)=V(A)+k (ie. window is open) in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending an I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL72_PREAMBLE ->IUT(I) START Topr ?I (V_S:=V_S+1) +DL72_VERIFICATION +DL_POSTAMBLE ?RNR !RR GOTO L720 +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L720	I0_UC(V_S, V_R) RNR1_UC(V_R) RNR1_NR(V_S)	(P) P=1 F=1 (F) (F) I	P=0 P=1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.1 Executed if IUT is able to send I frame on request.				

..... Continued from previous page.

Test Case Dynamic Behaviour

2_V114

Reference: LAPD, MFO/S
Identifier: DL72_V04

Purpose: verify that the IUT does not send an I frame (queued) when $V(s) = (A) + k$ (window is closed) in Multiple-Frame Established state ('2). The IUT is expected to remain in Multiple Frame Established state after sending no response.

Default:

Behaviour Description	Label	Constraints Reference	V	Comments
# # [CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL72_WC_SETUP START Td ?NRR (N_R:=V_S) !RR START Td ?I(N_R:=I.N_S) (V_S:=V_S+1, N_R: #: =V_S)	L720	RNR1_UC(V_R)		P=1, wait for IUT to Poll
# # START Td ? ! #: =V_S)	L721	RNR1_NRR(N_R)	(+)	F=1, ack all I frames
#*DL72_VERIFICATION #+DL_POSTAMBLE +DL72_UNEXPECTED GOTO L721 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td [NOT(CAN_SEND_IFRAMES)]		I0_UC(V_S, V_R)		F=0
		RRO_NR(N_R)		F=1
			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run

..... added to permit

Extended Comments:Q.321 Ref. 5.6.1

Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V08 IDSetAfter:DL72_V08 Purpose:Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame established state after sending the UA/F=1. Default:	Behaviour Description	Label	Constraints Reference	V Comments
	+DL72_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	SABME_NC UAL_UR	 (P) (F) (F)

Extended Comments:Q.921 Ref. 5.5.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V14				
Identifier: DL72_V14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE				
!DM				
START T200		DM0_NR		F=0
?SABME	L720	SABME1_UC	(P)	P=1
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL72_UNEXPECTED				
GOTO L720				
?OTHERWISE				
+DL_POSTAMBLE				(F)
?TIMEOUT T200				
+DL_POSTAMBLE				(F)

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V16				
Identifier: DL72_V16				
Purpose: Verify that the IUT sends nothing in response to a DM/F-1 received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !DM START T3 ?TIMEOUT T3 +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE	L720	DM1_NR	(P)	F=1
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V17				
Identifier: DL72_V17				
Purpose: Verify that the IUT sends a SABME/P-1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	FRMR_RR1_NR SABME1_UC	(P) (F) (F)	P 1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V20				
Identifier:DL72_V20				
Purpose:Verify that the IUT sends an RNR/F=1 in response to an RR/F=1 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !RR(V_A::=V_S)		RR1_NC(V_S)		P=1, N(R) set to V(S) of IUT
START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	RNR1_UF(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V21				
Identifier:DL72_V21				
Purpose:Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !RR(V_A::=V_S)		RR0_NC(V_S)		P=0, N(R) set to V(S) of IUT
START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE	L720		(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/2/DL72_V23				
Identifier: DL72_V23				
Purpose: Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after send no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !RR(V_A:=V_S)		RR0_NR(V_S)		F=0, N(R) set to V(S) of IUT
#				
#				
START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE	L720		(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/2/DL72_V74				
Identifier: DL72_V74				
Purpose: Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)=N(R).V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL72_2L_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L720	RR1_NC(N_R) RNR1_UR(V_R)	(P) (F)	P=1 F=1
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send SAME on request.				
			I	Test not run

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V25				
Identifier: DL72_V25				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL72_2I_SETUP (N_R::=V_S-1) !RR(V_A::=N_R) START Td ?I	L720	RR0_NC(N_R)	(P)	P=0
#				P=L, retrans mit I frame
+DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		IL_UC(N_R, V_R)	(P)	P=1, retrans mit I
#		RNR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

4 Abstract Test Suite - Part I

0993

4 Abstract Test Suite - Part I

0994

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V29				
Identifier: DL72_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_LI_SETUP (N_R:=V_S-1) !RR START Td ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE {NOT(CAN_SEND_A_IFRAME)}	L720	R50_NR(N_R) !1_UC(N_R, V_R) RNR1_UC(V_R)	 (P) (P) (F) (F) I	 F=0 F=1, retrans mit I P=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

4 Abstract Test Suite - Part I

0997

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4 Abstract Test Suite - Part I

0998

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V30				
Identifier: DL72_V30				
Purpose: Verify that the IUT sends an RNR/F=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !REJ(V_A:=V_S) # # START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	REJ1_NC(V_S) RNR1_UR(V_R)	 (P) (F) (F)	 P=1, N(R) set to V(S) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V33				
Identifier: DL72_V33				
Purpose: Verify that the IUT sends an RNR/P=1 and retransmits an I frame in response to an REJ/P=1 command with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A.IFRAME] +DL70_PREAMBLE +DL72_1I_SETUP (N.R.: =V_S-1) !REJ START T200 ?RNR START Td ?I	L720	REJ_NC(N_R) RNR1_UR(V_R)		P=1 F=1
+DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L721 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A.IFRAME)]	L721	IP_UC(N_R,V_R ,?)	(P)	Retransmit I.P=don't care
			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on receive.				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V34 Identifier:DL72_V34 Purpose:Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_II_SETUP (N_R:=V_S-1) !REJ START Td ?I </pre>	L720	REJ0_NC(N_R) 1P_UC(N_R,V_R,?)	(P)	P=0 Retransmit I frame, P=Don't care
<pre> +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>			(F) (F)	 Test not run
#	#	#	#	#

Extended Comments:Q.921 Ref. 5.6.4
Executed if IUT is able to send I frame on request.

[illegible]

New Case Template				
Reference	Case	Template	Reference	Case
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

Reference	Identifier	Purpose/Activity	Expected Behavior	Actual Behavior	Notes
Reference: IAPD/MFOC-1, 1977, 1978	Identifier: DL7C_V30	Purpose/Activity: The IUT sends normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1). The IUT is expected to enter Multiple Frame Established Peer-P-1 State.	Expected Behavior: The IUT sends a normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1).	Actual Behavior: The IUT sends a normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1).	Notes: The IUT is expected to enter Multiple Frame Established Peer-P-1 State.
Extended Comments: 0.921 Ref. 5.6.5	Identifier: DL7C_V30	Purpose/Activity: The IUT sends normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1). The IUT is expected to enter Multiple Frame Established Peer-P-1 State.	Expected Behavior: The IUT sends a normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1).	Actual Behavior: The IUT sends a normal in response to an FNR-P-1 received in Multiple Frame Established State (F-1).	Notes: The IUT is expected to enter Multiple Frame Established Peer-P-1 State.

[illegible]

Code	Label	Address	Operation	Value	Comments
000000	START T200	000000	LDI R1, 0	0	
000001	LDI R2, 0	000001	LDI R2, 0	0	
000002	LDI R3, 0	000002	LDI R3, 0	0	
000003	LDI R4, 0	000003	LDI R4, 0	0	
000004	LDI R5, 0	000004	LDI R5, 0	0	
000005	LDI R6, 0	000005	LDI R6, 0	0	
000006	LDI R7, 0	000006	LDI R7, 0	0	
000007	LDI R8, 0	000007	LDI R8, 0	0	
000008	LDI R9, 0	000008	LDI R9, 0	0	
000009	LDI R10, 0	000009	LDI R10, 0	0	
000010	LDI R11, 0	000010	LDI R11, 0	0	
000011	LDI R12, 0	000011	LDI R12, 0	0	
000012	LDI R13, 0	000012	LDI R13, 0	0	
000013	LDI R14, 0	000013	LDI R14, 0	0	
000014	LDI R15, 0	000014	LDI R15, 0	0	
000015	LDI R16, 0	000015	LDI R16, 0	0	
000016	LDI R17, 0	000016	LDI R17, 0	0	
000017	LDI R18, 0	000017	LDI R18, 0	0	
000018	LDI R19, 0	000018	LDI R19, 0	0	
000019	LDI R20, 0	000019	LDI R20, 0	0	
000020	LDI R21, 0	000020	LDI R21, 0	0	
000021	LDI R22, 0	000021	LDI R22, 0	0	
000022	LDI R23, 0	000022	LDI R23, 0	0	
000023	LDI R24, 0	000023	LDI R24, 0	0	
000024	LDI R25, 0	000024	LDI R25, 0	0	
000025	LDI R26, 0	000025	LDI R26, 0	0	
000026	LDI R27, 0	000026	LDI R27, 0	0	
000027	LDI R28, 0	000027	LDI R28, 0	0	
000028	LDI R29, 0	000028	LDI R29, 0	0	
000029	LDI R30, 0	000029	LDI R30, 0	0	
000030	LDI R31, 0	000030	LDI R31, 0	0	
000031	LDI R32, 0	000031	LDI R32, 0	0	
000032	LDI R33, 0	000032	LDI R33, 0	0	
000033	LDI R34, 0	000033	LDI R34, 0	0	
000034	LDI R35, 0	000034	LDI R35, 0	0	
000035	LDI R36, 0	000035	LDI R36, 0	0	
000036	LDI R37, 0	000036	LDI R37, 0	0	
000037	LDI R38, 0	000037	LDI R38, 0	0	
000038	LDI R39, 0	000038	LDI R39, 0	0	
000039	LDI R40, 0	000039	LDI R40, 0	0	
000040	LDI R41, 0	000040	LDI R41, 0	0	
000041	LDI R42, 0	000041	LDI R42, 0	0	
000042	LDI R43, 0	000042	LDI R43, 0	0	
000043	LDI R44, 0	000043	LDI R44, 0	0	
000044	LDI R45, 0	000044	LDI R45, 0	0	
000045	LDI R46, 0	000045	LDI R46, 0	0	
000046	LDI R47, 0	000046	LDI R47, 0	0	
000047	LDI R48, 0	000047	LDI R48, 0	0	
000048	LDI R49, 0	000048	LDI R49, 0	0	
000049	LDI R50, 0	000049	LDI R50, 0	0	
000050	LDI R51, 0	000050	LDI R51, 0	0	
000051	LDI R52, 0	000051	LDI R52, 0	0	
000052	LDI R53, 0	000052	LDI R53, 0	0	
000053	LDI R54, 0	000053	LDI R54, 0	0	
000054	LDI R55, 0	000054	LDI R55, 0	0	
000055	LDI R56, 0	000055	LDI R56, 0	0	
000056	LDI R57, 0	000056	LDI R57, 0	0	
000057	LDI R58, 0	000057	LDI R58, 0	0	
000058	LDI R59, 0	000058	LDI R59, 0	0	
000059	LDI R60, 0	000059	LDI R60, 0	0	
000060	LDI R61, 0	000060	LDI R61, 0	0	
000061	LDI R62, 0	000061	LDI R62, 0	0	
000062	LDI R63, 0	000062	LDI R63, 0	0	
000063	LDI R64, 0				

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/72_V43 Identifier: DL72_V43 Purpose: Verify that the IUT does not respond to an RNR/F=0 response with $V(A) \leq N(R) < V(S)$ received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_LI_SETUP (N_R:=V_S-1) !RNR # START T200 ?TIMEOUT T200 START T3 ?RNR !RR #+DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RNR !RR +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L720	RNR0_NR(N_R) RNR1_UC(V_R) RPL_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	(P) (I) (I) (I) (F)	F=0, V(A) ≤ N(R) < V(S) P=1 F=1 Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/72_V44 Identifier: DL72_V44 Purpose: Verify that the IUT sends an RNR/F=1 in response to an I frame received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !I(V_A:=V_S) # # # START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	I1_NC(V_R, V_S) RNR1_UP(V_R)	(P) (F) (F)	P=1, N(R) set to V_S. N(S) set to V(R) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.2.1				

Sample	Sample description	Length	Transmittance at 400 nm	n	Comments
1	Control (no sample)	1000	0.95	1.00	Reference
2	Sample A (100 mg)	1000	0.85	1.00	Low transmittance
3	Sample B (200 mg)	1000	0.75	1.00	Low transmittance
4	Sample C (300 mg)	1000	0.65	1.00	Low transmittance
5	Sample D (400 mg)	1000	0.55	1.00	Low transmittance
6	Sample E (500 mg)	1000	0.45	1.00	Low transmittance

	Model	Model	Model	Model	Model
1	Model 1	Model 2	Model 3	Model 4	Model 5
2	Model 1	Model 2	Model 3	Model 4	Model 5
3	Model 1	Model 2	Model 3	Model 4	Model 5
4	Model 1	Model 2	Model 3	Model 4	Model 5
5	Model 1	Model 2	Model 3	Model 4	Model 5
6	Model 1	Model 2	Model 3	Model 4	Model 5

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V47				
Identifier:DL72_V47				
Purpose:Verify that the IUT sends nothing in response to an I/P=0 with N(S)<->V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Reject state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE (N_S::=V_S+1) ! I (V_A::=V_S)		I0_NC(N_S, V_S)		P=0, N(R) set to V(S) , N(S) not set to V(R) of IUT
#				
#				
#				
#				
START t0 ?TIMEOUT t0 +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE	L720		(P)	
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V48				
Identifier:DL72_V48				
Purpose:Verify that the IUT sends a RNR/P=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL72_2I SETUP (N_R::=V_S-1) ! I		I1_NC(V_R, N_R)		P=1,V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START t200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT t200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L720	RNR1_UR(V_R)	(P)	F=1
#			(F)	(F)
			(F)	(F)
			I	Test not run
Extended Comments:Q.921 Ref. 5.6.2.1				

[illegible]

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V51 Identifier: DL72_V51 Purpose: Verify that the IUT sends nothing in response to an I/P=0 frame with V(A) < N(R) < V(S) and H(S) < > V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state. Default: :				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAME] +DL70_PREAMBLE +DL72_21_SETUP (CAN_SEND_IFRAME:=V_R+1) ::		I0_LC(N_S, N_R)		P=0, V(A) < N(R) < V(S) and H(S) < > V(R) if IUT
START T200 (T200value - ?TIMEOUT T200 START T200 ?RNR	L720	RNR1_UC(V_R)	(F)	P=1, Allow poll for T200 expiry
+DL82_VERIFICATION +DL_POSTAMBLE ?I		I1_UC(N_R, V_P)	(F)	P=1, Allow I for T200 expiry
+DL82_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAME)]			(F) (F) (F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

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Allow RNR or I due to expiry of the IUT's T200.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_V52 Identifier: DL72_V52 Purpose: Verify that the IUT sends a RNR/P=1 in response to an I frame with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state after sending RNR/P=1. Default: :				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_11_SETUP (N_R:=V_S+1) ?I		I1_NC(V_R, N_R)		P=1, V(A) < N(R) < V(S), N(S) set to V(R) of IUT
START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L720	RNR1_UC(V_R)	(F)	P=1
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

[illegible]

Test Case	Test Case Description	Test Case Data	Test Case Results	Test Case Status	Test Case Comments
1	Test Case 1: Verify that the program correctly calculates the sum of two numbers.	Input: 1, 2 Expected Output: 3	Actual Output: 3	Pass	
2	Test Case 2: Verify that the program correctly calculates the sum of two numbers.	Input: 10, 20 Expected Output: 30	Actual Output: 30	Pass	
3	Test Case 3: Verify that the program correctly calculates the sum of two numbers.	Input: 100, 200 Expected Output: 300	Actual Output: 300	Pass	
4	Test Case 4: Verify that the program correctly calculates the sum of two numbers.	Input: 1000, 2000 Expected Output: 3000	Actual Output: 3000	Pass	
5	Test Case 5: Verify that the program correctly calculates the sum of two numbers.	Input: 10000, 20000 Expected Output: 30000	Actual Output: 30000	Pass	

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V55				
Identifier:DL72_V55				
Purpose:Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)=N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established Own Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_I1_SETUP (N_R:=V_S-1,N_S:=V_R+1) ! I		I0_NC(N_S, N_R)		P=0,V(A)=N (R)<V(S), N (S) not set to V(R) of IUT
START T200 (T200value - ?TIMEOUT T200 START T200 ?RNR	L720	RNR1_UC(V_R)	(P)	P=1,Allow poll for T200 expiry
+DL82_VERIFICATION +DL_POSTAMBLE ? I		I1_UC(N_R, V_R)	(P)	P=1,Allow I for T200 expiry
+DL82_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F)	(F)
			(F)	(F)
			(F)	(F)
			I	Test not run
Extended Comments:Q.921 Ref. 5.8.1				

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Allow RNR or I due to expiry of the IUT's T200.

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Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_V56				
Identifier:DL72_V56				
Purpose:Verify that the IUT sends an RNR/P=1 or I/P=1 after a T200 timeout in Multiple Frame Established state (7.2). The IUT is expected to enter Timer Recovery state after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL72_PREAMBLE +DL72_I1_SETUP (N_S:=V_S-1) START Td ? I	L720	I1_UC(N_S, V_R)	(P)	P=1
+DL82_VERIFICATION +DL_POSTAMBLE ?RNR		RNR1_UC(V_R)	(P)	P=1
+DL82_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F)	(F)
			(F)	(F)
			I	Test not run
Extended Comments:Q.921 Ref. 5.6.7				

[illegible]

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N02 Identifier: DL72_N02 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.2). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREMABLE (N_R::=V_S*(K+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	RR0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

extended Comments: Q.921 Ref. 5.8.2

[illegible]

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N06 Identifier: DL72_N06 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 command with an (NR) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE (N_R:=V_S+(K+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTEDU GOTO L720 ?OTHERWISE +DL_POSTAMBLF ?TIMEOUT T200 +DL_POSTAMBLE	L720	REJ0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

[illegible]

Test Case Dynamic Behaviour			
Reference: LAPD/WFO/S72/S72_DL72_N10 Identifier: DL72_N10 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an (N,R) error received in the Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V Comments
+DL72_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L720	RNRQ_NC (N_R) SABME1_UC	P=0 P=1 (P) (F) (F)

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N13 Identifier: DL72_N13 Purpose: Verify that the IUT sends an RNR/P=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE (N_R::=V_S+(K+1)) !I		I1_NC(V_R, N_R)	P=1	
#				
START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L721 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	RNR1_OR(V_R)	F=1	
?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L721	SABME1_UC	(P) P=1	
		SABME1_UC	(P)	
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N14 Identifier: DL72_N14 Purpose: Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE (N_R::=V_S+(K+1)) !I		I0_NC(V_R, N_R)		P=0
#				
(V_R::=V_R+1) START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_N17				
Identifier:DL72_N17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	SABME_TL1_NC SABME1_UC	(F)	P=1
Extended Comments:Q.921 Ret. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S72/DL72_N18				
Identifier:DL72_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !DISC_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	DISC_TL1_NC SABME1_UC	(P)	P=1 P=1
Extended Comments:Q.921 Ret. 5.7.1				

Test Case Details				
Test Case: LAPD-001 (LAPD-001) - LAPD-001				
Purpose: Verify that the LAPD-001 (LAPD-001) is able to handle the LAPD-001 (LAPD-001) and the LAPD-001 (LAPD-001) is able to handle the LAPD-001 (LAPD-001).				
Scope: The LAPD-001 (LAPD-001) is able to handle the LAPD-001 (LAPD-001) and the LAPD-001 (LAPD-001) is able to handle the LAPD-001 (LAPD-001).				
Test Case Details	Label	Test Case Details	V	Comments
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.1	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.2	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.3	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.4	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.5	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.6	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.7	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.8	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.9	LAPD-001 (LAPD-001) - LAPD-001	(F)	
LAPD-001 (LAPD-001) - LAPD-001	1.1.1.10	LAPD-001 (LAPD-001) - LAPD-001	(F)	
Extended Comments: Q, Q1, R, F, S, Z, T				

Test Case Details				
Test Case: LAPD-002 (LAPD-002) - LAPD-002				
Purpose: Verify that the LAPD-002 (LAPD-002) is able to handle the LAPD-002 (LAPD-002) and the LAPD-002 (LAPD-002) is able to handle the LAPD-002 (LAPD-002).				
Scope: The LAPD-002 (LAPD-002) is able to handle the LAPD-002 (LAPD-002) and the LAPD-002 (LAPD-002) is able to handle the LAPD-002 (LAPD-002).				
Test Case Details	Label	Test Case Details	V	Comments
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.1	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.2	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.3	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.4	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.5	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.6	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.7	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.8	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.9	LAPD-002 (LAPD-002) - LAPD-002	(F)	
LAPD-002 (LAPD-002) - LAPD-002	1.1.1.10	LAPD-002 (LAPD-002) - LAPD-002	(F)	
Extended Comments: Q, Q1, R, F, S, Z, T				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N21				
Identifier: DL72_N21				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FMR of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !FMR_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	FMR_TL1_NR SABME_UC	(P)	P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N22				
Identifier: DL7_N22				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !RR_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	RR_TL1_NC (V_S) SABME_UC	(P)	P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Test Case 1				
Suite: LAPD (M707) (700) (N)				
Test Case: (M707) (N)				
Purpose: Verify that the JUT sends a SAMME/P-1 in response to a P-1 of the same length received in the JUT frame established state (C-20). The JUT is expected to enter Await and Establishment state after sending SAMME/P-1.				
Default:				
Behavior Description	Label	Consolidated Reference	V	Comments
*DC_POSTABLE *CONS_TL		BSM-TL-RC (V_20)		P-1
*START_M *NAME *PLS1 VERIFICATION *DL_POSTABLE *DL72 UNEXPECTED *CNO L20 *OTHERWISE *DL_POSTABLE *TIMEOUT_M *DL_POSTABLE	L20	SAMME/P-1	(P)	P-1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.7.1

Test Case Dynamic Test Case 2				
Suite: LAPD (M707) (700) (N)				
Test Case: (M707) (N)				
Purpose: Verify that the JUT sends a SAMME/P-1 in response to a P-1 of the same length received in the JUT frame established state (C-20). The JUT is expected to enter Await and Establishment state after sending SAMME/P-1.				
Default:				
Behavior Description	Label	Consolidated Reference	V	Comments
*DC_POSTABLE *CONS_TL		BSM-TL-RC (V_20)		P-1
*START_M *NAME *PLS1 VERIFICATION *DL_POSTABLE *DL72 UNEXPECTED *CNO L20 *OTHERWISE *DL_POSTABLE *TIMEOUT_M *DL_POSTABLE	L20	SAMME/P-1	(P)	P-1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N25				
Identifier: DL72_N25				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !I_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	I_TL1_NC (V_R, V_S) SABME1_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_N26				
Identifier: DL72_N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !UNDEF START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L720	UNDEF1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/NGD/01/2017/N2				
Label: L720				
Purpose: Verify that the IUP sends a SABME-F-1 in response to a frame with an invalid L field received in Multiple Frame established state (7.2). The IUP is expected to enter Await-1 state (7.2). The IUP is expected to enter Await-1 state (7.2) after sending SABME-F-1.				
Expected behaviour after sending SABME-F-1:				
Behaviour Description	Label	Conformance Reference	V	Comments
*DL72_PREAMBLE *SABME-F-1 *START-1M *SABME *DL72_VERIFICATION *DL_POSTAMBLE *DL72_UNEXPECTED *GOTO L720 *OTHERWISE *DL_POSTAMBLE *TIMEOUT-1M *DL_POSTAMBLE	L720	SABME-F-1-N SABME-F-1-C	(F) (F) (F) (F)	
Extended Comments: Q.421 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/NGD/01/2017/N1				
Label: L720				
Purpose: Verify that the IUP does not respond to an RR/F-1 response received in Multiple Frame established state (7.2). The IUP is expected to remain in Multiple Frame established state after sending no response.				
Expected behaviour:				
Behaviour Description	Label	Conformance Reference	V	Comments
*DL72_PREAMBLE *RR(F-1_A, V_2) *START-1M *TIMEOUT-1M *DL72_VERIFICATION *DL_POSTAMBLE *DL72_UNEXPECTED *GOTO L720 *OTHERWISE *DL_POSTAMBLE	L720	RR-F-1 RR-F-1	(P) (P)	F-1, R(R) Sent to V(2) of IUP
Extended Comments: Q.421 Ref. 5.8.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_I02 Identifier: DL72_I02 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL72_21_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START TD ?]	L720	RR1_NR(N_R) I1_UC(N_R, V_R)	(P)	F=1 P=1, retransmit I
+DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RR1_UC(V_R)	(F)	P=1
			(F)	
			(F)	
			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a FUD or change state when a MDL_ERR_INDICATION(A) is generated.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S72/DL72_I03 Identifier: DL72_I03 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL72_11_SETUP (N_R:=V_S-1) !RR START TD ?]	L720	RR1_NR(N_R) I1_UC(N_R, V_R)	(P)	F=1 P=1, retransmit I
+DLA1_VERIFICATION +DL_POSTAMBLE ?RNR +DLA2_VERIFICATION +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Compliance Testing

Reference	Label	Behavior Description	Callout/Reference	N	Comment
Reference: LPT-MV-S-1707-104					
13001 for DL2_104					
Purpose: Verify that the IOT does not respond to a REF ID response received in Multiple Prime Established state (7.2). The IOT is expected to remain in Multiple Prime Established state.					
Default:					
*DL2_POSTNAME (REQ_V_A : V_S)					
START IN FINISH IN	1700			(F)	
*DL2_VERIFICATION *DL_POSTNAME *DL2_UNEXPECTED GOTO 1720 OTHERWISE *DL_POSTNAME				(F)	

Extended Comments: Q.2, Ref. 5.8.7

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference	Identifier	Purpose	Test Case Description	Test Case Data
Reference: LAPD/MFO/S72/DL72_107	Identifier: DL72_107	Purpose: Verify that the IUT sends nothing in response to an RNR/F-1 response with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.2). The IUT is expected to enter Multiple Frame Established Peer Busy state.	<pre> [CAN_SEND_A_IFRAME] +DL72_PREAMBLE +DL72_11_SETUP (N.R.: V.S.1) :RNR START T200 :TIMEOUT T200 START T1 :RNR :RR +DL72_VERIFICATION +DL_POSTAMBLE :OTHERWISE +DL_POSTAMBLE :TIMEOUT T1 +DL_POSTAMBLE :RNR :RR +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L720 :OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	<p>V</p> <p>Constraints Reference</p> <p>Latency</p> <p> RNR1_NR(N_R) RNR1_UC(V_S) RNR1_NR(V_S) RNR1_UC(V_S) RNR1_NR(V_S) </p> <p> P-1 F-1 P-1 F-1 P-1 F-1 (F) I </p> <p> Comments F-1, V(A) < N(R) < V(S) P-1 F-1 P-1 F-1 Test not run </p>

Extracted Comments: Q.921 Ref. 5.8.7
 Tester responds to an RNR(P-1) from the IUT to keep the IUT from changing states.

LAPD Conformance Testing

[illegible]

4 Abstract Test Suite - Part I

LAPD Conformance Testing

[illegible]

4 Abstract Test Suite - Part I

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V04				
Identifier: DL73_V04				
Purpose: Verify that the IUT does not send an I frame (queued) when V(S)=V(A)+k (window is closed) in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL73_WC_SETUP START Td ?RNR (N_R:=V_S) !RR	L730	RNR1_UC(V_R)		F=1
#		RNR1_NR(IN_F)		F=1, ask all I frames
START Td ?I(N_F:=I_N_S)	L731	I0_UC(V_S, V_F)	(F)	F=1
(V_S:=V_S+1, N_F: !FR		RPO_NR(IN_F)		F=1
#+DL73_VERIFICATION				
#+DL_POSTAMBLE				
+DL73_UNEXPECTED GOTO L731 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
+DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
Extended Comments: Q.921 Ref. 5.6.1				

Continued on next page

Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V08				
Identifier: DL73_V08				
Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !SABME START T200 !UA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	SABME1_NC UA1_UR	(P) (F)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.2				

1. APP CONFORMANCE TESTING

First Case Dynamic Reliability					
Reference: LAM M20, 27, 40, 55, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	purpose: Verify that the LUT sends a WA_F 0 in response to a SAM received in multiple frames (0 to 31). The LUT is expected to remain in Multiple Frame Published state after sending WA_F 0.	44.0	200.000	0.0	0.0
Reliability	Reliability Test: LUT	44.0	200.000	0.0	0.0
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44.0	4				

EAP) (Conformance Testing)

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/S73/73/BL73_V14 Identifier: DL73_V14 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1. Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL73_PREAMBLE IDM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	DM0_NR SABME_UC	 (P) (F) (F)	 F=0 P=1	

extended Comments: Q.92 Ref. 5.7.1

IAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAPD/MFO.573.DL73.V16				
Identifier: DL73.V16				
Purpose: Verify that the IUP sends nothing in response to a DM F-1 received in Multiple Frame Established state (7.3). The IUP is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL73_PREAMBLE +DM +START IN +TIMEOUT IN +DL73_VERIFICATION +DL_POSTTABLE +DL73_UNEXPECTED GOTO L740 NOTHING +DL_POSTTABLE	L740	DM_NK	(F)	P=1
Extended Comments: Q.921 Ref. 5.8.7				

IAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAPD/MFO.574.DL74.V17				
Identifier: DL74.V17				
Purpose: Verify that the IUP sends a SAMME/P-1 after receiving a PRMR rejecting an RR in Multiple Frame Established state (7.3). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL74_PREAMBLE +PRMR RR +START T200 +SAMME +DL74_VERIFICATION +DL_POSTTABLE +DL74_UNEXPECTED GOTO L740 NOTHING +DL_POSTTABLE +TIMEOUT T200 +DL_POSTTABLE	L740	PRMR_RR_NK SAMME_OC	(F) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Number	Test Case Description	Test Case Data	Test Case Results	Test Case Status
1	Test Case 1: Verify that the system can handle multiple frames of data.	Test Case 1 Data: Multiple frames of data.	Test Case 1 Results: The system successfully handled multiple frames of data.	Test Case 1 Status: Pass
2	Test Case 2: Verify that the system can handle multiple frames of data.	Test Case 2 Data: Multiple frames of data.	Test Case 2 Results: The system successfully handled multiple frames of data.	Test Case 2 Status: Pass
3	Test Case 3: Verify that the system can handle multiple frames of data.	Test Case 3 Data: Multiple frames of data.	Test Case 3 Results: The system successfully handled multiple frames of data.	Test Case 3 Status: Pass
4	Test Case 4: Verify that the system can handle multiple frames of data.	Test Case 4 Data: Multiple frames of data.	Test Case 4 Results: The system successfully handled multiple frames of data.	Test Case 4 Status: Pass
5	Test Case 5: Verify that the system can handle multiple frames of data.	Test Case 5 Data: Multiple frames of data.	Test Case 5 Results: The system successfully handled multiple frames of data.	Test Case 5 Status: Pass
6	Test Case 6: Verify that the system can handle multiple frames of data.	Test Case 6 Data: Multiple frames of data.	Test Case 6 Results: The system successfully handled multiple frames of data.	Test Case 6 Status: Pass
7	Test Case 7: Verify that the system can handle multiple frames of data.	Test Case 7 Data: Multiple frames of data.	Test Case 7 Results: The system successfully handled multiple frames of data.	Test Case 7 Status: Pass
8	Test Case 8: Verify that the system can handle multiple frames of data.	Test Case 8 Data: Multiple frames of data.	Test Case 8 Results: The system successfully handled multiple frames of data.	Test Case 8 Status: Pass
9	Test Case 9: Verify that the system can handle multiple frames of data.	Test Case 9 Data: Multiple frames of data.	Test Case 9 Results: The system successfully handled multiple frames of data.	Test Case 9 Status: Pass
10	Test Case 10: Verify that the system can handle multiple frames of data.	Test Case 10 Data: Multiple frames of data.	Test Case 10 Results: The system successfully handled multiple frames of data.	Test Case 10 Status: Pass

Serial Test Item	Label	Constraints Reference	V	Comments
1. INITIALIZE		RR, NR (V_S)		P=0, N(R) Set to V(C) for IUT
2. START TO TIME	1.00		(F)	
3. END OF TEST				
4. STOP				
5. END OF TEST				
6. STOP				
7. END OF TEST				
8. STOP				
9. END OF TEST				
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98. STOP				
99. END OF TEST				
100. STOP				

Test Case Dynamic Behaviour				
Reference: LAPD RR/NC (7.3) DL/VR (7.3)				
Identifier: DL/VR (7.3)				
Purpose: Verify that the IUT does not respond to an RR/F-1 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after send no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL/VR_PREMABLE RR(V_A::V_S)		RR/NC(V_S)		F-1, N(h) set up V(h) set IUT
# # START TR ?TIMEOUT T1 +DL/VR_VERIFICATION +DL_POSTMABLE +DL/VR_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTMABLE	L730		(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD RR/NC (7.3) DL/VR (7.3)				
Identifier: DL/VR (7.3)				
Purpose: Verify that the IUT sends an RR/F-1 in response to an RR/F-1 response with V(A)-N(h)-V(1) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RR/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL/VR_PREMABLE +DL/VR_VERIFICATION (G_R::V_S-1) RR(V_A::N_R) ?START T200 ?ERR +DL/VR_VERIFICATION +DL_POSTMABLE +DL/VR_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTMABLE ?TIMEOUT T200 +DL_POSTMABLE [NOT(CAN_SEND_IFRAMES)]	L730	RR/NC(N_R) RR/VR(V_R)	(F) (F)	F-1 F-1
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send SABME on request.				
I				
Test not run				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V25 Identifier: DL73_V25 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)<N(R)<V(S). The IUT is expected to remain in Established state (7.3). Multiple Frame Established state after sending I. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREFRAME +DL73_21_SETUP (N_R:=-V_S-1) :RR(V_A:=-N_R) START Td ?I +DL83_VERIFICATION +DL_POSTAMBLE ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L730	RR_NR(N_R) IL_UC(N_R, V_R) RNR_UC(V_R)	(F) (P) (F) (F) (F) (F)	F=0 P=1, retrans mit I P=1 Test not run
Extended Comments: Q.921 Ref. 5, 6, 5 Executed if IUT is able to send I frame on request.				

[illegible]

Extended Computations Ref. 5.6.5

Executed if the IUT is able to send I frame on request.

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/C73/DL73_V29				
Identifier: DL73_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S). The IUT is expected to remain in Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL73_I1_SETUP (N_R::=V_S-1) !RR START Td ?I #	L730	REQ_NR(N_R) ILUC(N_R, V_R) RNRL_UC(V_R)	 (P) (F) (F)	 F=0 P=1, retrans mit I P=1
+DL83_VERIFICATION +DL_POSTAMBLE ?PNR +DL83_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME)) #				
Extended Comments: 0.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V30				
Identifier: DL73_V30				
Purpose: Verify that the IUT sends an RNR/P=1 response in response to a REJ/P=1 command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE +REJ(V_A::=V_S) #		REQ_NC(V_S)		P=1, N(R) set to V(S) of IUT
START T200 ?RNR +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RNRL_UR(V_R)	(P)	F=1
			(F)	(F)
			(F)	(F)
Extended Comments: 0.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD_MQoS7/DL73_V31 Identifier: DL73_V31 Purpose: Verify that the IUT sends nothing in response to a REL_P0 Command received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !REL(V_A: V_S) # # START T0 ?TIMEOUT T0 +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730	REQ0_NR(V_S)	(F)	F 0, N(R) set to V(S) of IUT
Extended Comments: O.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD_MQoS7/DL73_V32 Identifier: DL73_V32 Purpose: Verify that the IUT does not respond to a REL_P0 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !REL(V_A: V_S) # # ?START T0 ?TIMEOUT T0 +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730	REQ0_NR(V_S)	(P)	F 0, N(R) set to V(S) of IUT
Extended Comments: O.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case	Test Data	Expected Results	Actual Results	Comments
1	Test Case 1: Verify that the LUT is correctly received in Multiple Frame mode.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	Pass
2	Test Case 2: Verify that the LUT is correctly received in Single Frame mode.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	Pass
3	Test Case 3: Verify that the LUT is correctly received in Multiple Frame mode with a different LUT size.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	Pass
4	Test Case 4: Verify that the LUT is correctly received in Single Frame mode with a different LUT size.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	Pass
5	Test Case 5: Verify that the LUT is correctly received in Multiple Frame mode with a different LUT size and a different LUT format.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	1. The LUT is received in Multiple Frame mode. 2. The LUT is correctly received in Multiple Frame mode.	Pass
6	Test Case 6: Verify that the LUT is correctly received in Single Frame mode with a different LUT size and a different LUT format.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	1. The LUT is received in Single Frame mode. 2. The LUT is correctly received in Single Frame mode.	Pass

Test Case: CAN_SEND_A_FRAME				
<p>Reference: LATNFC-5.3.3, 5.3.4, 5.3.5</p> <p>Reaffirming 5 VJ's</p> <p>Independently that the IUT retransmits an I frame in response to a RLF, P, response with VJ's NRQ.V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.</p> <p>Details:</p>				
Behaviour Description	Label	Constraints Reference	V	Comment
[CAN_SEND_A_FRAME] +DL73_FRAME +DL73_SETUP (N_R : V_S 1) [REL] START TM ?I	L730	RNR_NR(N_R)	(F)	I frame sent
+DL73_VERIFICATION +DL73_POSTABLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL73_POSTABLE ?TIMEOUT TM +DL73_POSTABLE [NOT(CAN_SEND_A_FRAME)]		IF DL73_N_R_V_R ()	(F)	Re-transmit I frame
#			(F)	
#			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.8.7				
Executed if IUT is able to send I frame on request.				
			I	Test not run

Test Case: CAN_SEND_A_FRAME				
<p>Reference: LATNFC-5.3.3, 5.3.4, 5.3.5</p> <p>Reaffirming 5 VJ's</p> <p>Independently that the IUT sends a RLF, P, in response to an RNR/P, P, response. Verify that the IUT sends a RLF, P, in response to an RNR/P, P, received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RLF/P, P.</p> <p>Details:</p>				
Behaviour Description	Label	Constraints Reference	V	Comment's
+DL73_FRAME [REL(V_A : V_S)]		RNR1_RR(V_S)		P=1, R(R) set to V(S) of IUT
#				
#				
+START TM +DL73_VERIFICATION +DL73_POSTABLE GOTO L730 ?OTHERWISE +DL73_POSTABLE ?TIMEOUT T200 +DL73_POSTABLE	L730	RNR1_RR(V_R)	(P)	P=1
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V37 Identifier: DL73_V37 Purpose: Verify the the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !RNR(V_A::=V_S) # # START T200 ?TIMEOUT T200 START Td ?RNR !RR +DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RR +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730	RNR0_NC(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	(P) (I) (I) (I) (F)	P=0, N(R) set to V(S) of IUT P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V39 Identifier: DL73_V39 Purpose: Verify that the IUT does not respond to an RNR/P=0 response received in Multiple Frame Established state (7.3). the IUT is expected to enter Multiple Frame Established Peer Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !RNR(V_A::=V_S) # # START T200 ?TIMEOUT T200 START Td ?RNR !RR +DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RR +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730	RNR0_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	(P) (I) (I) (I) (F)	P=0, N(R) set to V(S) of IUT P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

[illegible][illegible]

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V43				
Identifier: DL73_V43				
Purpose: Verify that the IUT does not respond to an RNR/F=0 response with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.3). the IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL73_IL_SETUP (N_R::=V_S-1) !RNR START T200 ?TIMEOUT T200 START Td ?RNR !RR </pre>	L730	RNR0_NR(N_R)	(P)	$F=0, V(A) < N(R) < V(S)$
<pre> # +DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RR +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE +DL_SEND_A_IFRAME() </pre>		RNR1_UC(V_R) RNR1_NR(V_S)	(F)	P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

Table 1. Static Dynamic Information					
	Behaviour Description	Label	Condition Reference	Y	Comments
1	STARTING FRAME				1.1. 1111
2	STARTING FRAME				2.1. 1111
3	STARTING FRAME				3.1. 1111
4	STARTING FRAME				4.1. 1111
5	STARTING FRAME				5.1. 1111
6	STARTING FRAME				6.1. 1111
7	STARTING FRAME				7.1. 1111
8	STARTING FRAME				8.1. 1111
9	STARTING FRAME				9.1. 1111
10	STARTING FRAME				10.1. 1111
11	STARTING FRAME				11.1. 1111
12	STARTING FRAME				12.1. 1111
13	STARTING FRAME				13.1. 1111
14	STARTING FRAME				14.1. 1111
15	STARTING FRAME				15.1. 1111
16	STARTING FRAME				16.1. 1111
17	STARTING FRAME				17.1. 1111
18	STARTING FRAME				18.1. 1111
19	STARTING FRAME				19.1. 1111
20	STARTING FRAME				20.1. 1111
21	STARTING FRAME				21.1. 1111
22	STARTING FRAME				22.1. 1111
23	STARTING FRAME				23.1. 1111
24	STARTING FRAME				24.1. 1111
25	STARTING FRAME				25.1. 1111
26	STARTING FRAME				26.1. 1111
27	STARTING FRAME				27.1. 1111
28	STARTING FRAME				28.1. 1111
29	STARTING FRAME				29.1. 1111
30	STARTING FRAME				30.1. 1111
31	STARTING FRAME				31.1. 1111
32	STARTING FRAME				32.1. 1111
33	STARTING FRAME				33.1. 1111
34	STARTING FRAME				34.1. 1111
35	STARTING FRAME				35.1. 1111
36	STARTING FRAME				36.1. 1111
37	STARTING FRAME				37.1. 1111
38	STARTING FRAME				38.1. 1111
39	STARTING FRAME				39.1. 1111
40	STARTING FRAME				40.1. 1111
41	STARTING FRAME				41.1. 1111
42	STARTING FRAME				42.1. 1111
43	STARTING FRAME				43.1. 1111
44	STARTING FRAME				44.1. 1111
45	STARTING FRAME				45.1. 1111
46	STARTING FRAME				46.1. 1111
47	STARTING FRAME				47.1. 1111
48	STARTING FRAME				48.1. 1111
49	STARTING FRAME				49.1. 1111
50	STARTING FRAME				50.1. 1111
51	STARTING FRAME				51.1. 1111
52	STARTING FRAME				52.1. 1111
53	STARTING FRAME				53.1. 1111
54	STARTING FRAME				54.1. 1111
55	STARTING FRAME				55.1. 1111
56	STARTING FRAME				56.1. 1111
57	STARTING FRAME				57.1. 1111
58	STARTING FRAME				58.1. 1111
59	STARTING FRAME				59.1. 1111
60	STARTING FRAME				60.1. 1111
61	STARTING FRAME				61.1. 1111
62	STARTING FRAME				62.1. 1111
63	STARTING FRAME				63.1. 1111
64	STARTING FRAME				64.1. 1111
65	STARTING FRAME				65.1. 1111
66	STARTING FRAME				66.1. 1111
67	STARTING FRAME				67.1. 1111
68	STARTING FRAME				68.1. 1111
69	STARTING FRAME				69.1. 1111
70	STARTING FRAME				70.1. 1111
71	STARTING FRAME				71.1. 1111
72	STARTING FRAME				72.1. 1111
73	STARTING FRAME				73.1. 1111
74					

Label	Constraint Reference	V	Comments
11 R(04 5, V 5)			P 1, R(R) get to V(5) R(5) not get to V(R) of 107
RND_LR(V R)		(F)	P 1
		(F)	
		(F)	

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S73/DL73_V47				
Identifier: DL73_V47				
Purpose: Verify that the IUT sends nothing in response to an I/P-0 with N(S)<V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_S:=V_S+1) !!V_A:=V_S		I0_NC(I1_S, V_S)		P=0, N(R) set to V(S) , N(S) not set to V(R) of IUT
#				
#				
#				
#				
START T3 ?TIMEOUT T3 +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730		(P) (F)	
Extended Comments: 0.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S73/DL73_V48				
Identifier: DL73_V48				
Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject recovery & Own Busy state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL73_2I_SETUP (N_R:=V_S-1) !I		I1_NC(V_R, N_R)		P=1, V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START T200 ?RNR +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_IFRAMES)}	L730	RNR1_UR(V_R)	(P) (F) (F) I	F=1 Test not run
Extended Comments: 0.921 Ref. 5.6.2.1				

Behaviour Description	Label	Constraint Reference	V	Comment
Reference: L73, V73, L73, V73 Identifies the L73, V73 Purpose: Verify that the IUT sends nothing in response to an L73 received with V(A)-NR(S) in Multiple Frame state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state. Default:				
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL73_2L_SETUP (NR:=V_S-1) ;1		T200 (V_R, NR)		P-1, V(A)-N (R)-V(S), N (S) set to V(R) of IUT
#				
#				
#				
#DELTA				
START T200 (T200value -				
?TIMEOUT T200 START T200	L730	RNR1_UR(V_R)	(P)	P-1, Allow poll for T200 expiry
RNR				
+DL83_VERIFICATION				
+DL_POSTAMBLE				
;1				
#				
#				
#				
+DL83_VERIFICATION				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
?OTHERWISE				
+DL_POSTAMBLE				
+DL73_UNEXPECTED				
GOTO L730				
?OTHERWISE				
+DL_POSTAMBLE				
[NOT(CAN_SEND_IFRAMES)]				
#				
Extended Comments: Q.921 Ref. 5.6.2.2 Allow for RNR or I due to expiry of the IUT's T200.				

Behaviour Description	Label	Constraint Reference	V	Comment
Reference: L73, V73, L73, V73 Identifies the L73, V73 Purpose: Verify that the IUT sends a RNR/F-1 in response to an L/P-1 frame with V(A)-NR(S) and N(S)-V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state after sending RNR/F-1. Default:				
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL73_2L_SETUP (NR:=V_S-1, N_S:=V_R+1) ;1		IL_NC(N_S, N_R)		P-1, V(A)-N (R)-V(S), N (S) not set to V(R) of IUT
#				
#				
#				
#				
START T200				
?RNR				
+DL73_VERIFICATION				
+DL_POSTAMBLE				
+DL73_UNEXPECTED				
GOTO L730	L730	RNR1_UR(V_R)	(P)	F=1
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
[NOT(CAN_SEND_IFRAMES)]				
#				
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MQ/S/3/DL73_V51 Identifier: DL73_V51 Purpose: Verify that the IUT sends nothing in response to an I/F=0 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Paralleled state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_IFFRAME] +DL70_PREAMBLE +DL73_21_SETUP (N_R:=V_S-1, N_C:=V_P+1) ;I </pre>		I_N_C=N_R		F=V(A)=N (R)<V(S), N (S)<V(R) Test not run
<pre> START T200 (T200value) ?TIMEOUT T200 START T200 ?ERR </pre>	L730	ERR_LP(V_R)	(F)	F=1, Allow Full I/F Test failure
<pre> +DL83_VERIFICATION +DL_IOTAMBLE ; </pre>		IL_LP(V_R)	(F)	F=1, Allow I
<pre> +DL83_VERIFICATION +DL_IOTAMBLE ?TIMEOUT T200 +DL_IOTAMBLE ;OTHERWISE +DL_IOTAMBLE +DL73_UNEXPECTED GOTO L730 ;OTHERWISE +DL_IOTAMBLE </pre>			(F)	
<pre> [NOT(CAN_SEND_IFFRAME)] </pre>			(F)	
Extended Comment S:Q.9.1 Ref. C.6.3.1				Test not run

Continued on next page

Test Case Dynamic Behaviour				
Reference: LAPD/MQ/S/3/DL73_V52 Identifier: DL73_V52 Purpose: Verify that the IUT sends a RNF/F=1 in response to an I frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state after sending RNF F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFFRAME] +DL70_PREAMBLE +DL73_11_SETUP (N_R:=V_S-1) ;I </pre>		IL_NC(V_R, N_R)		P=1, V(A)=N (R)<V(S), N (S) set to V(R) of IUT
<pre> START T200 ?ERR +DL83_VERIFICATION +DL_IOTAMBLE +DL73_UNEXPECTED GOTO L730 ;OTHERWISE +DL_IOTAMBLE TIMEOUT T200 +DL_IOTAMBLE </pre>	L730	RNR_LP(V_R)	(F)	F=1
<pre> [NOT(CAN_SEND_A_IFFRAME)] </pre>			(F)	
Extended Comment S:Q.9.1 Ref. C.6.3.1				Test not run

Test Case Dynamic Behaviour				
Reference: LAPD, RFC 2717, 5.6.2.2				
Identifier: DL73_V3				
Purpose: Verify that the IUT sends nothing in response to an L1-P0 received with V(A), N(R), V(S) in Multiple Frame Established state (7.1). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL73_L1_SETUP (N_R::V,S:1) ?1		10_NC(V_R, N_R)		10_V(A), R (R), V(S), N (S) set to V(R) of IUT
# # #				
#DEFAULT)				
START T200 (T200value)				
TIMEOUT T200 START T200	L730	RNR1_UC(V_R)	(P)	P-1, Allow poll for T200 expiry
?RNR				
+DL83_VERIFICATION +DL_POSTABLE				
?1		11_UC(N_R, V_R)	(P)	P-1, Allow I for T200 expiry
# #				
+DL83_VERIFICATION +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE ?OTHERWISE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTABLE [NOT(CAN_SEND_A_IFRAME)]			(F) (F) (F)	Test not run
#				

Extended Comments: Q.921 Ref. 5.6.2.2
Allow for RNR or I due to expiry of the IUT's T200.

Test Case Dynamic Behaviour				
Reference: LAPD, RFC 2717, 5.6.2.2				
Identifier: DL73_V3				
Purpose: Verify that the IUT sends a RNR/F-1 in response to an L1-P1 Frame with V(A), N(R), V(S) and N(S), V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Reject Recovery & Own Busy state after sending RNR/F-1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL73_L1_SETUP (N_R::V,S:1,N,S::V,R:1) ?1		11_NC(N_S, N_R)		P-1, V(A), N (R), V(S), N (S) not set to V(R) of IUT
# # # #				
START T200				
?RNR				
+DL73_VERIFICATION +DL_POSTABLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE [NOT(CAN_SEND_A_IFRAME)]	L730	RNR1_UC(V_R)	(P)	P-1
#				

Extended Comments: Q.921 Ref. 5.8.1

..... Continued from previous page.

Allow for RNR or I due to expiry of the IUT's T200.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V56	Identifier: DL73_V56	Purpose: Verify that the IUT sends an RNR/P-1 or I/P-1 after a T200 expires in Multiple Frame Established state (7.3). The IUT is expected to enter Timer Recovery state after sending RNR/P-1 or I/P-1.		
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL73_PREAMBLE +DL73_LL_SETUP (N_S:=V_S-1) START T200 !! +DL83_VERIFICATION +DL_POSTAMBLE RNR +DL83_VERIFICATION +DL_POSTAMBLE GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L730	IL_UC(N_S, V_R) RNR_ILUC(V_R)	(P) (P)	P-1 P-1
#				Test not run

Extended Comments: O.421 Ref. 5.6.7

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_V55	Identifier: DL73_V55	Purpose: Verify that the IUT sends nothing in response to an I/P-0 frame with V(A)=N(R) and N(S)=V(R) received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established Perfect Recovery & Own Busy state.		
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL73_LL_SETUP (N_P:=V_S-1, N_S:=V_P+1) !! START T200 (T200 value = 0) ?TIMEOUT T200 START T200 RNR +DL83_VERIFICATION +DL_POSTAMBLE ?I +DL83_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE GOTO L730 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L730	IL_UC(N_S, V_R)	(F)	I/P-0 Poll for T200 expiry
#				Test not run

Extended Comments: O.921 Ref. 5.8.1

Continued on next page

Test Case Type: Behaviour				
Reference: IATM0007 (Table 5.3.1.1.1.1) Label: LUT_V09 Purpose: Verify that the IUT sends an RNR/F1 after a T203 occurs in Multiple Frame Established state (7.3). The IUT is expected to enter Timer Recovery state after sending RNR/F1. Details:				
Behaviour Description	Label	Constraint Reference	V	Comments
<pre> *T203_IMPLEMENTED *DL71_IMPLEMENTED *T203_T1 *T203_T2 *RNR *DL71_VERIFICATION *DL71_POSTTABLE *DL71_UNEXPECTED GOTO L731 OTHERWISE *DL71_POSTTABLE *T203_T1 *DL71_UNEXPECTED GOTO L730 OTHERWISE *DL71_POSTTABLE [NOT(T203_IMPLEMENTED)] </pre>	L731	RNR UC(V_R)	(F)	
			(F)	
			(F)	
			(F)	
#			1	Test not run
Extended Comments: Q.921 Ref. 5.10.3.3 Executed if IUT implements T203 timer.				

Test Case Type: Behaviour				
Reference: IATM0007 (Table 5.3.1.1.1.1) Label: LUT_V09 Purpose: Verify that the IUT sends an RNR/F0 when it clears OWN BUSY in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F0. Details:				
Behaviour Description	Label	Constraint Reference	V	Comments
<pre> *DL71_IMPLEMENTED *T203_T1 *T203_T2 *RNR *DL71_VERIFICATION *DL71_POSTTABLE *DL70_VERIFICATION *DL70_UNEXPECTED GOTO L730 OTHERWISE *DL70_POSTTABLE *T203_T1 *DL70_POSTTABLE [NOT(CAN_CLR_OWN_BUSY)] </pre>	L730	RNR UC(V_R)	(F)	F 0
			(F)	P 1
			(F)	P 0
			(F)	
			(F)	
#			1	Test not run
Extended Comments: Q.921 Ref. 5.6.6 Executed if IUT is able to clear own busy on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S73/DL73_N01 Identifier:DL73_N01 Purpose:Verify that the IUT sends an RNR/P=1 and then sends a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R:=V_S+(K+1)) !PR START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L731 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730 L731	RR1_NC(N_R) RNR1_UR(V_R) SABME1_UC SABME1_UC	 (F) (P)	P=1 P=1 P=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S73/DL73_N02 Identifier:DL73_N02 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.3). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R:=V_S+(K+1)) !PR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

1. MTD Conformance Test

Test Case Description				
<p>Reference: LAR, MTD/5.8.2.1</p> <p>Purpose: Verify that the MTD sends a SAMM/P.1 in response to an R6/P.0 response with an MIR error received in Multiple Frame Established state (1.3). The MTD is expected to enter Awaited Establishment state after sending SAMM/P.1.</p> <p>Default:</p>				
Behavior Description	Label	Constraints Reference	V	Comments
<pre> +DL3_FRAMESET (N_R: V.5.8.2.1) ERR START IN NAME +DL3_VERIFICATION +DL3_INSTANT +DL3_UNEXPECTED GOTO L40 OTHERWISE +DL3_POSTAMBLE TIMEOUT IN +DL3_POSTAMBLE </pre>	L40	R6/P.0 SAMM/P.1	(F) (F)	
Extended Comments: Q.921, R6.1, 5.8.2				

1. MTD Conformance Test

Test Case Description				
<p>Reference: LAR, MTD/5.8.2.1</p> <p>Purpose: Verify that the MTD sends a SAMM/P.1 in response to an R6/P.0 response with an MIR error received in Multiple Frame Established state (1.3). The MTD is expected to enter Awaited Establishment state after sending SAMM/P.1.</p> <p>Default:</p>				
Behavior Description	Label	Constraints Reference	V	Comments
<pre> +DL3_FRAMESET (N_R: V.5.8.2.1) ERR START IN NAME +DL3_VERIFICATION +DL3_INSTANT +DL3_UNEXPECTED GOTO L730 OTHERWISE +DL3_POSTAMBLE TIMEOUT IN +DL3_POSTAMBLE </pre>	L730	R6/P.0 SAMM/P.1	(F) (F)	
Extended Comments: Q.921, R6.1, 5.8.2				

Test Case Dynamic Behaviour				
Reference: IAPD/MFO/C73/DL73_N05				
Identifier: DL73_N05				
Purpose: Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> +DL73_PREAMBLE (N_R:=V_S+(K+1)) !REJ START T200 ?RNR ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L731 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE </pre>	<p>L730</p> <p>L731</p>	<p>REJ_NC(N_R)</p> <p>RNR_UR(V_R)</p> <p>SABME_UC</p> <p>SABME_UC</p>	<p>(P)</p> <p>(P)</p> <p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p> <p>(F)</p> <p>(F)</p>	<p>P=1</p> <p>P=1</p> <p>P=1</p> <p>P=1</p>

Extended Comments: 0.921 Ref. 5.8.2

Test Case: Dynamic Behaviour				
Reference: LAID.MPC-ST3_LL3_Anc Identifier: IN73_N06 Purpose: Verify that the IUT sends a SAEWE_F=1 in response to a RET/P=0 command with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SAEWE_F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R::=V_S+(K+1)) !REJ START T200 ?SAEWE +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RETO_NC(N,R) SAEWE1_UC	(P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

Test Case: Symbolic Conformance				
Reference: LAPD-921 Ref. 5.8.2.1				
Behaviour Description				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL73_PREAMBLE (N RE: V 5+(R+1)) +R33 +START 7H +SEAME +DL81_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 +OTHERWISE +DL_POSTAMBLE +TIMEOUT 7H +DL_POSTAMBLE	L730	REQ_NR(N,R) SAMMEL_DC	(F) (F)	(F) (F)
Extended Comments: Q.921 Ref. 5.8.2				

Test Case: Symbolic Conformance				
Reference: LAPD-921 Ref. 5.8.2.1				
Behaviour Description				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL73_PREAMBLE (N RE: V 5+(R+1)) +R33 +START 7H +SEAME +DL81_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 +OTHERWISE +DL_POSTAMBLE +TIMEOUT 7H +DL_POSTAMBLE	L730	REQ_NR(N,R) SAMMEL_DC	(F) (F)	(F) (F)
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S73/DL73_N10				
Identifier: DL73_N10				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RNR0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S73/DL73_N11 Identifier: DL73_N11 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R::V_S+(K+1)) ?RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S73/DL73_N12 Identifier: DL73_N12 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE (N_R::V_S+(K+1)) ?RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L730	RNR0_NR(N_R) SABME1_UC	 (P) (F) (F)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

[illegible]

[illegible]

Test Case Dynamic Behaviour				
Behaviour Description	Label	Constraint Reference	V	Comments
<p>before call: LAPP, MSYS/3, RL/3, RL6</p> <p>Event after: DL7, NL6</p> <p>Purpose: Verify that the IUP sends a SAIME/p 1 in response to an I/P 0 with an (NR) error and (NL) VCR) received in Multiple Frame Established state (7,3). The IUP is expected to Awaiting Establishment state after sending SAIME/p 1.</p> <p>Default:</p>				
<p>*DL7_TREMBLE (R.S.: V R 1, N.R.: V S, (R+1))</p>		10_NC (NL S, N_R)		P 0
<p>START T200</p> <p>*SAIME</p> <p>*DL51_VTRIFICATION</p> <p>+DL_POSTAMBLE</p> <p>*DL/3_UNEXPECTED</p> <p>GOTO L730</p> <p>?OTHERWISE</p> <p>+DL_POSTAMBLE</p> <p>?TIMEOUT T200</p> <p>+DL_POSTAMBLE</p>	L730	SAIME_UC	(F)	P 1
			(F)	
			(F)	

LAPD Conformance Testing

Test Case Dynamic behaviour				
Reference: LAPD/MFO/S73/ DL73_N17				
Identifier: DL73_N17				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !SABME_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMPLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMPLE ?TIMEOUT TD +DL_POSTAMPLE	L730	SABME_UC	(F)	P-1

Extended Comments: C.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD:MFO/S73/DL73_N18 Identifier: DL73_N18 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter: Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !DISC_TL START TD ~SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L730	DISC_TL_NC SABME_VC	(F) (F) (F)	P=1 P 1

LAPD Conformance Testing

Ref. 1 Case: Dynamic Behaviour				
Reference: LAPD MIO STS, DL7A_N19				
Identification: DL7A_N19				
Purpose: Verify that the IDP sends a SAME/P-1 in response to a UA of incorrect length received in Multiple Frame Established state (7.8). The IDP is expected to enter Awaited Establishment state after sending SAME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL7A_PREAMBLE +UA_TL +START_TD +SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 +OTHERWISE +DL_POSTAMBLE +TIMEOUT_TD +DL_POSTAMBLE	L730	UA_TL1_NR SAME1_DR	(F) (F)	F-1 F-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Ref. 1 Case: Dynamic Behaviour				
Reference: LAPD MIO STS, DL7A_N20				
Identification: DL7A_N20				
Purpose: Verify that the IDP sends a SAME/P-1 in response to a DM of incorrect length received in Multiple Frame Established state (7.8). The IDP is expected to enter Awaited Establishment state after sending SAME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL7A_PREAMBLE +DM_TL +START_TD +SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 +OTHERWISE +DL_POSTAMBLE +TIMEOUT_TD +DL_POSTAMBLE	L730	DM_TL1_NR SAME1_DR	(F) (F)	F-1 F-1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/573/L73_NL1 Identifier: DL73_NL1 Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraint's Reference	V	Comments
+DL73_PREAMBLE ?FRMR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L730	FRMR_TL1_NR SABME_UC	(1) (1)	t=1 t=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/573/DL73_N22 Identifier: L73_N22 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE ?RR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L730	RR_TL1_NC (V_S) SABME_UC	(F) (F) (F)	P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPDM/01077/DL73.N.3 Identifier: DL73.N.3 Purpose: Verify that the IUP sends a SAME P-1 in response to an RRR and incorrect length received in Multiple Frame Established state (7.8). the IUP is expected to enter Awaitting Establishment state after sending SAME/P-1. default :				
#	Behaviour Description	Label	Corresponding Reference	V. Comments
1	*DL73 FRAMEABLE *RRR, TL START TD ?SAME *DL51 VERIFICATION *DL61 FRAMEABLE *DL73 UNEXPECTED GOTO L730 ?OTHERWISE *DL FRAMEABLE ?TIMEOUT TD *DL FRAMEABLE	L730	RRR "L73" 20 (V.3) FRAMEABLE (V.3)	P-1 P-1 (P) (P) (P)

Extended Comments: Q.921 Ref. 5.7.1

Net Case Dynamic Behaviour				
Referenced: APD, MFO/73/L73 R24				
Tabular: DL73 R24				
Purpose: Verify that the IUP sends a SAME/P-1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.4). The IUP is expected to enter Awaiting Establishment state after sending SAME/P-1.				
Defect #	Behaviour Description	Label	Constraint Reference	V
#	*DL73 PREPARE *L73 TL *START TD *SAME *DL73 VERIFICATION *DL_POSTTABLE *DL73_UNEXPECTED GOTO L740 ?OTHERWISE *DL_POSTTABLE ?TIMEOUT TD *DL_POSTTABLE	L740	REJ_TL_NC (V.5) SAME1 DC	P-1 P-1 (F) (F)

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S73/DL73_N26				
Identifier: DL73_N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraint's Reference	V	Comments
+DL73_PREAMBLE !UNDEF START TD SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L730	UNDEF1_NC SABME1_UC	(P) (P) (P)	P-1

LAPD (Informant) Testing

Test Case Dynamic Behaviour			
Reference: LAPD_NFO_S13/TL73_N2/			
Identifier: DL73_N2/			
Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.3). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.			
default:			
Behaviour Description	Label	Constraints Reference	V Comments
+DL73_PREAMBLE !SABME_TL START_Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Td +DL_POSTAMBLE	L730	SABME_TL1_NC SABME1_UC	P=1 P=1 (F) (F) (F)
Extended Comments: C.921 Rel. 5.7.1			

L.A.P.D. Conformance Testing?

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S:3/3L73 101 Control: DL73 101 Purpose: Verify that the IUT does not respond to an RR/F:1 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:	Behaviour Description	Label	Constraints Reference	V
	*DL73_PREAMBLE ?RR(V_A: V_S) START TD ?TIMEOUT T3 *DL73_VERIFICATION +DL_POSTAMBLE *DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730	RR1_NK(V_S)	(P)
				F:1, N(R) Set to V(S) of IUT

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/HFO/S73/DL73_I03 Identifier: DL73_I03 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S). The IUT is expected to remain in Established state (7,3). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
CAN_SEND_A_IFRAME; -DL70_PREAMBLE +DL73_I1_SETUP (N_F:=V_S-1) IRR START TD ?I	L730	RR1_NR(N_R)		F=1
+DL83_VERIFICATION +DL_POSTAMBLE ?RRR		TL_UC(N_R, V_R)	(P)	P=1, retransmit I
+DL83_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE		RNR1_UC(V_R)	(P)	P=1
+DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F)	
			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.8.7
 Executed if IUT is able to send I frame on request.

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Extend: Comments: 0 921 Ret 5 8 7

Executed if IUT is able to send I frame on request.

Test Case: Dynamic Behaviour				
Reference: IABT-MQ-003-T1/5-104				
Identifier: DL73-105				
Purpose: Verify that the IUT does not respond to a Rel P-1 response received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_PREAMBLE !REL(V_A: V_S)		REL_NR(V_S)		F-1, N(R) set to V(S) of IUT
#				
#				
START TD ?TIMEOUT 't1 +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE	L730		(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.8.7

Test Case: Dynamic Behaviour				
Reference: IABT-MQ-003-T1/5-105				
Identifier: DL73-105				
Purpose: Verify that the IUT retransmits an I frame in response to an Rel P-1 response with $V(A) < N(R) - V(S)$ received in Multiple Frame Established state (7.3). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL73_I1_SETUP (N_R: V_S 1) !REL START TD ?1	L730	REL_NR(N_R)		F-1
#				
#				
+DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT 't1 +DL_POSTAMBLE +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))		IF_UC(N_R,V_R ,?)	(P)	Retransmit I, P don't care
			(F)	
			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.8.7
Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAED/MFO/S73/DL73_I07				
Identifier: DL73_I07				
Purpose: Verify that the IUT sends nothing in response to an RNR/F=1 response with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.3). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_I_FRAME] +DL70_PREAMBLE +DL73_I1_SETUP (N_R::=V_S-1) !RNR START T200 ?TIMEOUT T200 START Td ?RNR !RR </pre>	L730	RNR1_NR(N_R)		F=1, V(A) <= N(R) < V(A)
<pre> # +DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RR +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L730 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_I_FRAME)] </pre>		RNR1_UC(V_S) RNR1_NR(V_S)	(P) (I) (I) (I) (F)	P=1 F=1 P=1 F=1 Test not run

Extended Comments: Q.921 Ref. 5.8.7
 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states

L'Altre Confronto Letterario

#	Behavior Description	Label	Control Unit's Reference	V	Comments
#	1. CAN_SEND_A_IFFRAME *DL74_PREAMBLE *TIMEOUT *TIMEOUT_T0 *RNR	L740	RNR_Nr(V_S)		P=0, clear peer busy
#	*START_T0 *T (V_S := V_S+1) *DL70_VERIFICATION *DL_POSTAMBLE *DL74_UNEXPECTED GOTO L741 ?OTHERWISE *DL_POSTAMBLE ?TIMEOUT_T0 *DL_POSTAMBLE ?RNR !RNR GOTO L740 *DL74_UNEXPECTED GOTO L740 ?OTHERWISE *DL_POSTAMBLE [NOT(CAN_SEND_A_IFFRAME)]	L741	10_UC(V_S, V_R)	(P)	P=0 P=1
#			RNR_UC(V_R) RNR1_NR(V_S)	(F) (F)	P=1 F=1
#				(F)	
#				I	Test not run

Extended Comments: 0.921 Ref. 5.6.1
 Executed if IUT is able to send 1 frame on request.

Executed if IUT is able to send I frame on request.

Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V04				
Identifier: DL74_V04				
Purpose: verify that the IUT does not send an I frame (queued) when V state (S)=V(A)+k (window is closed) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL74_LWC_SETUP START Td ?RR (N_R:=V_S) !RR	L740	RR1_UC(V_R)		P=1
#		RR1_NR(N_R)		F=1,ack all I frames
START Td ?I(N_R:=I.N_S) (V_S:=V_S+1, N_R: !RR	L741	I0_UC(V_S, V_R)	(F)	P=0
#		RR0_NR(N_R)		F=0
# +DL70_VERIFICATION				
# +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
+DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.1				

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Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V08				
Identifier: DL74_V08				
Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !SABME START T200 ?UA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	SABME1_NC UA1_UR	(P)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/3/4-DL74_V10 Identifier: DL74_V10 Purpose: Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	SABME0_NC UA0_UR	(F) (F) (F) (F)	F=0 F=0
Extended Comments: Q.921 Ref. 5.5.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/3/4-DL74_V12 Identifier: DL74_V12 Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to enter TEI Assigned state after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	DISC1_NC UA1_UR	(P) (F) (F)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/LL74_V13				
Identifier:DL74_V13				
Purpose:Verify that the IUT sends a UA/P=0 in response to a LISC.P (received in Multiple Frame Established state (7.4)). The IUT is expected to enter TEI Assigned state after sending UA/P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	DISC0_NC UA0_UR	(F) (F)	F=0 F=0
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_V14				
Identifier:DL74_V14				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.4). The IUT is expected to enter Waiting Establishment state after sending the SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	DM0_NR SABME1_UC	(P) (P)	F=0 P=1
Extended Comments:Q.921 Ref. 5.7.1				

1 APD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD NFO 2.4, 3.4, 4.6 Label: L74_V16 Purpose: Verify that the IUT sends nothing in response to a DMF-T received in Multiple Frame Established state (L74). The IUT is expected to remain in Multiple Frame Established state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE IUT START T200 (T200_Value - Delta) ?TIMEOUT T200 START T200 RR +DL84_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE	L740	DMF_NR RR1 UC (V, R)	 (F) (F) (F) (F)	P-1 P-1 IUT's TUC expired
Extended Comments: Q.921 Ref. 5.8.7 Allow for RR poll due to expiry of IUT's T200.				

1 APD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD NFO 2.4, 3.4, 4.7, 4.8, 4.9, 5.1 Label: L74_V17 Purpose: Verify that the IUT sends a SAME/P-1 after receiving a FRMR indication on RR in Multiple Frame Established state (L74). The IUT is expected to enter Awaiting Establishment state after sending SAME/P-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE ?FRMR_NR START T200 SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	FRMR_RR1_NR SAME1 UC	 (F) (F) (F)	 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/UL74_V20				
Identifier: DL74_V20				
Purpose: Verify that the IUT sends an RR/P=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !RR(V_A::V_S)		RR1_NC(V_S)		P=1, N(P) set to V(S) of IUT
#				
#				
START T200 ?RR	L740	RR1_UR(V_E)	(F)	P=1
+DL70_VERIFICATION +DL_POSTAMBLE				
+DL74_UNEXPECTED GOTO L740				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V21				
Identifier: DL74_V21				
Purpose: Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !RR(V_A::V_S)		RR0_NC(V_S)		P=0, N(R) set to V(S) of IUT
#				
#				
START T3 ?TIMEOUT T3	L740		(P)	
+DL70_VERIFICATION +DL_POSTAMBLE				
+DL74_UNEXPECTED GOTO L740				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD RR/ST/4/DL74 V.3				
<p>Scenario: DL74 V.3</p> <p>Purpose: Verify that the IUT does not respond to an RR/F-1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after send no response.</p> <p>Protocol:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
<pre> +DL74_PREAMBLE +RR(V_A::V_S) # START IN ?TIMEOUT T1 +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE </pre>	L740	RR/RR(V_S)	(F)	<pre> F-1, RR Set to 700 of 100 </pre>
Extended Comments: Q.921 Ref. 5, 6, 5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD RR/ST/4/DL74 V.4				
<p>Scenario: DL74 V.4</p> <p>Purpose: Verify that the IUT sends an RR/F-1 in response to an RR/F-1 command with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F-1.</p> <p>Protocol:</p>				
Behaviour Description	Label	Constraint Reference	V	Comments
<pre> +DL70_PREAMBLE +DL74_PREAMBLE +DL74_21_SETUP (NR::V_S, 1) +RR(V_A::N_R) START T200 ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES)) # </pre>	L740	RR/RR(N_R)	(P)	P-1
	L740	RR/RR(V_R)	(P)	F-1
			(F)	(F)
			(F)	(F)
			I	Test not run
Extended Comments: Q.921 Ref. 5, 6, 5				
Executed if IUT is able to send SAME on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V25 Identifier: DL74_V25 Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL74_21_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?1	L740	RR0_NC(N_R)	P=0	
+DL80_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	P=1, retrans mit I frame
+DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RR1_UC(V_R)	(F)	P=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V26 Identifier: DL74_V26 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL74_21_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?1	L740	RR0_NR(N_R)		F=0
+DL80_VERIFICATION +DL_POSTAMBLE ?RR		IL_UC(N_R, V_R)	(P)	P=1, retrans mit I
+DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RR1_UC(V_R)	(P)	P=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSG 174/174_V28				
Identifier: DL74_V28				
Purpose: Verify that the IUT sends an RR1-1 in response to an RR1-1 command with V(A) NR(V(S)) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
[CAN_SEND_I_FRAME] +DL70_POSTAMBLE +DL74_I1_SETUP (NR: V(S-1)) !RR ?START T200 ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES))	L740	RR1_NC(N_R)	(F)	P-1
#		RR1_UC(V_R)	(F)	P-1
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				
			I	Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSG 174/174_V28				
Identifier: DL74_V28				
Purpose: Verify that the IUT retransmits an I frame in response to an RR1-0 command with V(A) NR(V(S)) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
[CAN_SEND_A_I_FRAME] +DL70_POSTAMBLE +DL74_I1_SETUP (NR: V(S-1)) !RR ?START Td ?I +DL80_VERIFICATION +DL_POSTAMBLE ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAMES))	L740	RR0_NC(N_R)		P-0
#		RR1_UC(N_R, V_R)	(F)	P-1, retransmit I frame
		RR1_UC(V_R)	(P)	P-1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if the IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V29				
Identifier: DL74_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)=N(k)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_I1_SETUP (N_K::=V_S 1) ## START T4 T1	L740	RR0_NK(N_F) I1_UC(R_F, V_K)	(F)	F=1, P=1
+DL70_VERIFICATION +DL_POSTAMBLE ## +DL70_VERIFICATION +DL_POSTAMBLE GOTO L740 OTHERWISE +DL_POSTAMBLE TIMEOUT T4 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RFL_UC(V_K)	(P)	F=1
			(F)	
			(F)	
			I	Test case end
Extended Comments: Q.921 Ref. 5.6.5 Expected if IUT is able to send I frame DL74_V29.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V30				
Identifier: DL74_V30				
Purpose: Verify that the IUT sends an RR/F=1 in response to a REJ/P=1 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !REL(V_A::=V_S) ## START T200 RR +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE	L740	REJ1_NC(V_S) RR1_UR(V_R)	(P)	P=1, N(R) set to V(S) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MQ_S/4/DL74_V31				
Identifier: DL74_V31				
Purpose: Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !REJ(V_A:=V_S) # # START T3 ?TIMEOUT T3 +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE	L740	REJ0_NC(V_S)	(P) (F)	P=0, N(K) set to V(S) of IUT
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MQ_S/4/DL74_V32				
Identifier: DL74_V32				
Purpose: Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !REJ(V_A:=V_S) # # START T3 ?TIMEOUT T3 +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE	L740	REJ0_NR(V_S)	(P) (F)	F=0, N(K) set to V(S) of IUT
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V33 Identifier: DL74_V33 Purpose: Verify that the IUT sends an RR/P=1 and retransmits an I frame in response to an REJ/P=1 command with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_11_SETUP (N_R := V_S - 1) !REJ START T200 ?RR START T3 ?I	L740	REJ1_NC(N_R)	P=1	
	L741	RR1_UR(V_R) IP_UC(N_R,V_R, ,?)	P=1 (F)	Retransmit I, P=don't care
+DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F) (F)	
#				Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V34 Identifier: DL74_V34 Purpose: Verify that the IUT retransmits an I frame in response to an REJ/P=0 command with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_11_SETUP (N_R := V_S - 1) !REJ START T3 ?I	L740	REJ0_NC(N_R) IP_UC(N_R,V_R, ,?)	(P)	P=0 Retransmit I, P=don't care
+DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S74/DL74_V35 Identifier: DL74_V35 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 response with V(A) < N(R)-V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_IL_SETUP (N_R:=V_S-1) !REJ START Td ?I	L740	RR10_NR(N_R) If UC(N_R,V_R,?)	(P)	F=0 Retransmit I, P, don't care
+DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S74/DL74_V36 Identifier: DL74_V36 Purpose: Verify that the IUT sends a RR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established peer busy state after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !RNR(V_A:=V_S) # # START T200 ?NR +DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	RR1_NC(V_S) RR1_UR(V_R)	(P) (F) (F)	P=1, N(R) set to V(S) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S74/DL74_V37					
Identifier:DL74_V37					
Purpose:Verify the the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Busy state.					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	+DL74_PREAMBLE !RNR(V A::=V_S)		RHEO_NC(V_S)		P=0, N(R) set to V(S) of IUT
#	START T200 ?TIMEOUT T200 START TD ?RR !RNR +DL74_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE	L740	FEL_UC(V_R) RNP1_NR(V_S)	(F) (I) (I) (I) (I) (F)	P=1 P=1

Extended Comments:Q.921 Ref. 5.6.5
Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/374/DL74_V39				
Identifier:DL74_V39				
Purpose:Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_FRAMEBLE !RNR(V_A::=V_S)		RNR0_NR(V,S)		F=0, N(R) set to V(S) of IUT
# #	L740			
START T200 ?TIMEOUT T200 START Tb TRR		RRL_UC(V,R) RNR1_NR(V,S)	(P)	P=I F=I
!RNR +DL74_VERIFICATION +DL_POSTAMBLE			(I)	
?OTHERWISE +DL_POSTAMBLE			(I)	
?TIMEOUT Tb +DL_POSTAMBLE			(I)	
TRR		RRL_UC(V,R) RNR1_NR(V,S)	(I)	P=I F=I
TBRR +DL_POSTAMBLE GOTO L740 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.6.5 Tester responds to an RR(P=I) from the IUT to keep the IUT from changing states				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MF2 S.4 DL74_440 Identifier: DL74_440 Purpose: Verify that the IUT sends an RR(P=1) in response to an RNR(P=1) with V(A)=N(R)=V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Busy state after sending RR(P=1). Test null:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_11_SETUP (N.R.: V.S=1) !RNR START T200 ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L74	RNR(N,R)	(F)	P=1, V(A)=N(R)=V(S) P=1
#				
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MF2 S.4 DL74_441 Identifier: DL74_441 Purpose: Verify that the IUT sends nothing in response to an RNR(P=0) with V(A)=N(R)=V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Busy state. Test null:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_11_SETUP (N.R.: V.S=1) !RNR START T200 ?TIMEOUT T200 START M ?RR !RNR +DL74_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L740	RNR(N,R) RNR_UC(V,R) RNR_L_NR(V,S) RNR_UC(V,R) RNR_L_NR(V,S)	(F) (F) (F) (F) (F)	P=0, V(A)=N(R)=V(S) P=1 F=1 P=1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MPO/S74/DL74_V44				
Identifier:DL74_V44				
Purpose:Verify that the IUT sends an RR/F-1 in response to an I frame received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !!(V_A:=V_S)		IL_NC(V_R, V_S)		P=1, N(R) set to V(S) , N(S) set to V(R) of IUT
# # # # #				
START T200 (V_R:=V_R+1) ?R	L740	RR1_UR(V_R)	(P)	F-1
+DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	

Extended Comments:0.921 Ref. 5.6.2.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 7.4.10, 7.4.14, 7.4.15 Identifier: DL74_V45				
Purpose: Verify that the IUT sends an RR P=0 in response to an L1 received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending RR P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !!(V_A::V_S)		!!NC(V_R, V_S)		P=0, N(R) set to V(S), N(S) set to V(R) and IUT
#				
#				
#				
#				
START T200 (V_R::V_S+1)				
?RR				
+DL74_VERIFICATION +DL_POSTAMBLE				
+DL74_UNEXPECTED GOTO L740				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE	L740	RR0_UR(V_R)	(F)	(F)
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 7.4.10, 7.4.14, 7.4.15 Identifier: DL74_V46				
Purpose: Verify that the IUT sends a REJ/P=1 in response to an L1/P=1 with N(S)>V(R) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending REJ/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_S::V_S+1) !!(V_A::V_S)		!!NC(N_S, V_S)		P=1, N(R) set to V(S), N(S) not set to V(R) of IUT
#				
#				
#				
#				
START T200				
?REJ				
+DL75_VERIFICATION +DL_POSTAMBLE				
+DL74_UNEXPECTED GOTO L740				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE	L740	REJ1_UR(V_R)	(F)	(F)
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MF0/S74/LL74_V47				
Identifier: DL74_V47				
Purpose: Verify that the IUT sends a REJ/F=0 in response to an I/P=0 with N(S)<V(R) received i. Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_FRAMELE (N_S:=V_S+1) I(V_A:=V_C)		IU_NC(N_S, V_S)		I=0, N(F) Set to V(S) N(R) not Set to V(R) of IUT
#				
#				
#				
START T200 ?REJ +DL75_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	REJO_UR(V_M)	(F)	F=0
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MF0/S74/LL74_V48				
Identifier: DL74_V48				
Purpose: Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+AN_SEND_IFRAME31 +LL70_FRAMELE +DL74_CI_SETUP (N_R:=V_S+1) !I		IL_NC(V_R, N_R)		P=L,V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START T200 (V_R:=V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_IFRAME31)}	L740	RR1_UR(V_R)	(P)	F=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 1 PL1 V4.0				
Identifier: DL74_V4.0				
Purpose: Verify that the IUT sends a RS/P-0 in response to an I/P-0 received with V(A)-N(R)-V(S) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy state after sending RS/P-0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL74_21_SETUP (N_R: V_S 1) ; 1		IO_Nc(V_R, N_R)		P-0 V(A)-N(R)-V(S), N(S) set to V(R) of IUT
START T200 (V_R: V_R+1) ; 0	L740	RRO_UK(V_R)	(F)	F=0
+DL74_VERIFICATION +DL_POSTAMBLE GOTO L740 ; OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_IFRAMES)}			(F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.6.2.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MSC 2 PL1 V4.0				
Identifier: DL74_V4.0				
Purpose: Verify that the IUT sends a REJ/P-1 in response to an I/P-1 frame with V(A)-N(R)-V(S) and N(S)-V(R) received in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established Peer Receiver Busy/Reject Recovery state after sending REJ/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL74_21_SETUP (N_R: V_S 1, N_S: V_R+1) ; 1		II_NC(N_S, N_R)		P-1 V(A)-N(R)-V(S), N(S) not set to V(R) of IUT
START T200 ; REJ +DL75_VERIFICATION +DL_POSTAMBLE GOTO L740 ; OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_IFRAMES)}	L740	REJ1_UK(V_R)	(P)	F=1
#			(F)	
#			(F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.8.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_V51 Identifier:DL74_V51 Purpose:Verify that the IUT sends a REJ/F=0 in response to an I/P=P=0 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established Peer Receiver Busy/Reject Recovery state after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> {CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL74_2I_SETUP (N_R:=-V_S-I,N_S:=-V_R+1) ! I </pre>		IO_NC(N,S, N,R)		P=0,V(A)<N (R)<V(S), N (S) not set to V(R) of IUT
<pre> START T200 ?REJ +DL75_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)] </pre>	L740	REIO UR(V_R)	(F)	F=0
			(F)	
			(F)	
			I	Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V52 Identifier: DL74_V52	Purpose: Verify that the IUT sends a RR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy state after sending RR/F=1.			
Default:	Behaviour Description	Label	Constraints Reference	V
#	[CAN_SEND_A.IFRAME] +DL70_PREAMBLE +DL74_1I_SETUP (N_R:=-V_S-1) 'I		T1_NC(V_R, N_R)	
#	START T200 (V_R:=-V_R+1) ?RR	L740	RR1_UR(V_R)	(P)
#	+DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPEATED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_A.IFRAME))			(F) (F)
#				I
				Test not run

Extended Comments: Q.921 Ref. 5.6.2.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MF0/S74/DL74_v53				
Identifier: DL74_V53				
Purpose: Verify that the IUT sends a RR/F-0 in response to an I/P 0 received with V(A) N(R) V(S) in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established reer Receiver Busy state after sending RR/F-0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> {CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL74_I1_SETUP (N_R := V_S-1) ! I START T200 (V_R := V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L740	<p>I0_NC(V_R, N_R)</p> <p>RR0_OR(V_R)</p>	<p>(P)</p> <p>(F)</p> <p>(F)</p> <p>I</p>	<p>P-0,V(A) N(R) V(S) set test V(R) of IUT</p> <p>F-0</p> <p>Test not run</p>
#				
#				
#				

Extended Comments: Q.921 Ref. 5.6.2.2

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAFB/RFO/S7A/DL74_V54 Ident if ter: DL74_V54 Purpose: Verify that the IUT sends a REQ/P-1 in response to an I/P-1 frame with V(A) N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established Peer Receiver Busy/Reject Recovery state after sending Req/P-1.	Behaviour Description	Label	Constraints Reference	V	Comments
# # # # #	{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL74_11_SETUP (N_R::V_S-1,N_S::V_R+1) !!		I1_NC(N_S, N_R)		P-1,V(A)=N (R)<V(S), N (S) not set to V(R) of IUT
	START #200 ?REQ +DL75_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T200 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L740	REJ_LUR(V_R)	(P)	F=1
				(F)	
				(F)	
#				I	Test not run

Extended Comments: Q.921 Ref. 5.8.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V55				
Identifier: DL74_V55				
Purpose: Verify that the IUT sends a REJ/F=0 in response to an I/P 0 frame with V(A)=N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established Peer Receiver Busy/Reject Recovery state after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL74_I1_SETUP (N_S:=V_S-1, N_F:=V_R+1) !!				P=0, V(A)=N (R)<V(S), N (S) not set to V(R) or :T
START T200 ?REJ +DL75_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L740	REF(UC(V_R))	(F)	F=0
#			(F)	Test not run
#			(F)	
#			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_V56				
Identifier: DL74_V56				
Purpose: Verify that the IUT sends an RR/P=1 after a T200 timeout in Multiple Frame Established state (7.4). The IUT is expected to enter Timer Recovery state after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL74_I1_SETUP (N_S:=V_S-1) START T3 FF +DL84_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED (GOTO L740) ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L740	RR1_UC(V_R)	(P)	P=1
#			(F)	(F)
			(F)	(F)
			1	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

[illegible]

omments:Q. 921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N02 Identifier: DL74_N02 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.4). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R:=V_S+(K+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	RFO_NC(N_R) SABME1_UC	(P) (P) (F) (F)	I=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N03 Identifier: DL74_N03 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/P=1 response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R:=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	RRI_NR(N_R) SABME1_UC	(P) (F) (F)	P=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case: Dynamic Behaviour			
Reference: LAPD-NFO-S74 DL7/4-N04			
Identifier: DL7/4-N04			
Purpose: Verify that the IUP sends a SAME.P.1 in response to an RR.F.0 with an NR(K) error received in Multiple Frame Established state (7.4). The IUP is expected to enter Await(1) Establishment state after sending SAME.P.1.			
Default:			
Behaviour Description	Label	Constraint Reference	V
+DL74_PREAMBLE (N_R::V_S*(K+1)) ERR START TR ?SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TR +DL_POSTAMBLE	L740	RR0_NR(N R) SAME.P.1C	P.1 P.1 (F) (F) (F)

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N06 Identifier:DL74_N06 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R:=V_S+(K+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	REJ0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N07 Identifier:DL74_N07 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 Response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R:=V_S+(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	REJ1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD/374/DL74_NDR				
Identifier: DL74_NDR				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a N(R) F-0 response with an N(R) error received in Multiple Frame Establishment state (7.4). The IUT is expected to enter Await and Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N.R.: V.S*(K+1)) ?RRR START T1 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L740	REQ_RR(N.R) SABME_UC	(F) (F)	F-0 F-1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD MFD/374/DL74_NDR				
Identifier: DL74_NDR				
Purpose: Verify that the IUT sends an RR/P-1 and a SABME/P-1 in response to an RRR/P-1 command with a N(R) error received in Multiple Frame Establishment state (7.4). The IUT is expected to enter Await and Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N.R.: V.S*(K+1)) ?RRR START T200 ?RRR START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740 L741	RRR_NC(N.R) RRR_OR(V.R) SABME_UC SABME_UC	(P) (P) (F) (F) (P) (F) (F)	P-1 F-1 P-1 P-1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N10 Identifier:DL74_N10 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RNR/P=0 command with an N(R) error received in the Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	RNR0_NC(N_R) SABME1_UC	(F) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N11 Identifier:DL74_N11 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RNR/F=1 Response with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L740	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	P=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/WFO/S74/DL74_NI3					
Identifier:DL74_NI3					
Purpose:Verify that the IUT sends an RR/P=1 and a SABME/P=1 in response to an L/P=1 frame with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.					
Default :					
#	Behaviour Description	Label	Constraints Reference	V	Comments
	+DL74_PREAMBLE (N_R::=V_S+(K+1)) ! I		T1_NC(V_R, N_R)		P=1
	START T200 (V_R::=V_R+1) ?RR	L740	RR1_UR(V_R)		F=1
	?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE	L741	SABMEL_UC	(P)	P=1
	?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		SABMEL_UC	(P)	
				(F)	
				(F)	
				(F)	

Extended Comments:Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N14				
Identifier:DL74_N14				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_R::=V_S+(K+1)) ! I		I0_NC(V_R, N_R)		P=0
# (V_R::=V_R+1) START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	SABME_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N15				
Identifier:DL74_N15				
Purpose:Verify that the IUT sends a REJ/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_S::=V_R+1,N_R::=V_S+(K+1)) ! I		I1_NC(N_S, N_R)		P=1
# START T200 ?REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	REJ1_UR(V_R)		F=1
?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L741	SABME_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N16 Identifier: DL74_N16 Purpose: Verify that the IUT sends a REJ/P=0 and a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S) ~V(R) received in Multiple Frame Established state (7.4). The IUT is expected to Awaitng Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_S:=V_R+1,N_R:=V_S+(K+1)) ! I		I0_NC(N_S, N_R)		P=0
# START T200 ?REJ	L740	REJO_UR(V_R)		P=0
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L741	SABME1_UC	(P)	P=1
?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N17 Identifier: DL74_N17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	SABME_TL1_NC SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S74/DL74_N19 Identifier:DL74_N19					
Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE	:UA_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	UA_TLL_NR SABMEL_UC	(P)	F=1 P=1
				(F)	
				(F)	

Extended Comments:I.Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/574/DL74_N20				
Identifier: DL74_N20				
Purpose: Verify that the IUT sends a SAME/P-1 in response to a DM of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SAME/P-1.				
Default:				
Behaviour Description	Label	CONSTANTS Reference	V	Comments
+DL74_PREAMBLE !DM_TL START_TN SSAME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TN +DL_POSTAMBLE	L740	DM_TL_NR SAME1_UC	(F) (F) (F) (F)	F-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/574/DL74_N21				
Identifier: DL74_N21				
Purpose: Verify that the IUT sends a SAME/P-1 in response to a PMR of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SAME/P-1.				
Default:				
Behaviour Description	Label	CONSTANTS Reference	V	Comments
+DL74_PREAMBLE !PMR_TL START_TN SSAME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TN +DL_POSTAMBLE	L740	PMR_TL_NR SAME1_UC	(F) (P) (F) (F)	F-1 P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N22 Identifier: DL74_N22 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !RR_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	RR_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S74/DL74_N23 Identifier: DL74_N23 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !RNR_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	RNR_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
<p>Reference: LAPD-REQ-24/1974-N14</p> <p>Issue: Effect of N-1</p> <p>Purpose: Verify that the IUP sends a SAME/P-1 in response to a REQ at incorrect length received in 9111 the frame established state (V-4). The IUP is expected to enter Awaiting Establishment state after sending SAME/P-1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<p>+DL/74_PREAMBLE</p> <p>+REQ_TL</p> <p>#</p> <p>START_TN</p> <p>SAME</p> <p>+DL81_VERIFICATION</p> <p>+DL_POSTABLE</p> <p>+DL/74_UNEXPECTED</p> <p>GOTO L/740</p> <p>OTHERWISE</p> <p>+DL_POSTABLE</p> <p>TIMEOUT_TN</p> <p>+DL_POSTABLE</p>	L/740	<p>REQ_TL_NC (V-3)</p> <p>SAME1_UC</p>	<p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p>	<p>P-1</p> <p>P-1</p>
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
<p>Reference: LAPD-REQ-24/1974-N15</p> <p>Issue: Verify that the IUP sends a SAME/P-1 after an N201 error occurs in Multiple Frame Established state (7.4). The IUP is expected to enter Awaiting Establishment state after sending SAME/P-1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<p>+DL/74_PREAMBLE</p> <p>+REQ_TL</p> <p>#</p> <p>START_TN</p> <p>SAME</p> <p>+DL81_VERIFICATION</p> <p>+DL_POSTABLE</p> <p>+DL/74_UNEXPECTED</p> <p>GOTO L/740</p> <p>OTHERWISE</p> <p>+DL_POSTABLE</p> <p>TIMEOUT_TN</p> <p>+DL_POSTABLE</p>	L/740	<p>I_TL1_NC (V-3, V-5)</p> <p>SAME1_UC</p>	<p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p>	<p>P-1</p>
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_N27				
Identifier:DL74_N27				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.4). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	SABME_TL_NC SABME_UC	(P) (F) (F)	P=1

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Extended Comments: Q.921 Ref. 5.8.7				
Behaviour Description	Label	Conformance	V	Comments
*DL74_PREAMBLE RR(V_A: V_R)		RR(V_A: V_R)		P-1, REQ sent on V(R) DL IUT
*START IN *TIMEOUT IN +DL70_VERIFICATION +DL74_POSTAMBLE +DL74_UNEXPECTED GOTO L740 *OTHERWISE +DL74_POSTAMBLE	L740		(F)	
Extended Comments: Q.921 Ref. 5.8.7				

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Extended Comments: Q.921 Ref. 5.8.7				
Behaviour Description	Label	Conformance	V	Comments
*DL74_PREAMBLE +DL74_POSTAMBLE +DL74_UNEXPECTED GOTO L740 *OTHERWISE +DL74_POSTAMBLE *TIMEOUT IN +DL74_POSTAMBLE [NOT (CAN_SEND_I_FRAMES)]	L740	RR1_NK(N_R) IL_UC(N_R, V_R) RR1_UC(V_R)	(P) (P) (P) (F) (F) I	P-1 P-1, return shift 1 P-1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDU or change state when a MDL_ERR_INDICATION(A) is generated.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_I03				
Identifier:DL74_I03				
Purpose:Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)-V(S) received in Multiple frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_1I_SETUP (N_R:=V_S-1) !RR START Td ?I +DL80_VERIFICATION +DL_POSTAMBLE ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L740	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	 (P) (P) (F) (F) I	 F=1 P=1, retransmit I P=1 Test not run
#				
Extended Comments:Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S74/DL74_I04				
Identifier:DL74_I04				
Purpose:Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !REJ(V_A:=V_S) # # START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE	L740	REJ1_NR(V_S)	(P) (F)	F=1, N(R) Set to V(S) of IUT
Extended Comments:Q.921 Ref. 5.8.7				

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Q. 921 Ref. 5, p. 7

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V01 Identifier: DL75_V01 Purpose: Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_SABME] +DL75_PREAMBLE <IUT!SABME> START Topr ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RR !RNR GOTO L750 +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT (CAN_SEND_SABME)] #	L750	SABME1_UC	(P)	REQ. SABME P=1 P=1 F=1 (F) (F) I Test not run
Extended Comments: Q.921 Ref. 5.5.1.2 Executed if IUT is able to send SABME/P=1 on request.				

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Executed if IUT is able to send 1 frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V08				
Identifier: DL75_V08				
Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE SABME START T200 TUA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L750 OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L750	SABME_NC UA0_UR	P=1 (F) (F)	P=1 (F) (F)
Extended Comments: Q.921 Ref. 5.5.2				

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V10				
Identifier: DL75_V10				
Purpose: Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE SABME START T200 TUA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L750 OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L750	SABME0_NC UA0_UR	(P) (P)	P=0 P=0
Extended Comments: Q.921 Ref. 5.5.2				

Test Case: Software Requirements				
Purpose: Verify that the IUT sends a UA/F 0 in response to a DISC/F 0 received in Multiple frame established state (F 3). The IUT is expected to enter the Assigned state after sending UA/F 0.				
Ref: 0.1				
Behaviour Description	Label	Correct Path's Reference	V	Comments
*DLTS_PREAMBLE *DISC *START_FLAG *UA	L75.3	DISC_NF UA_LON	(F)	F 1
*DLTS_VERIFICATION *DL_FCS1 *DL_FCS2 *GOTO L750 *OTHERWISE *DL_POSTAMBLE *TIMEOUT_T200 *DL_POSTAMBLE	L75.3	DISC_NF UA_LON	(F)	F 1
Extended Comments: 0.21 Ref: 5.5.3.2				

Test Case: Software Requirements				
Purpose: Verify that the IUT sends a UA/F 0 in response to a DISC/F 0 received in Multiple frame established state (F 3). The IUT is expected to enter the Assigned state after sending UA/F 0.				
Ref: 0.1				
Behaviour Description	Label	Correct Path's Reference	V	Comments
*DLTS_PREAMBLE *DISC *START_FLAG *UA	L75.0	DISC_NF UA_LON	(F)	F 0
*DLTS_VERIFICATION *DL_FCS1 *DL_FCS2 *GOTO L750 *OTHERWISE *DL_POSTAMBLE *TIMEOUT_T200 *DL_POSTAMBLE	L75.0	DISC_NF UA_LON	(F)	F 0
Extended Comments: 0.21 Ref: 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MQO/S75/DL75_V14				
Identifier: DL75_V14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending the SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L750	DMO_NR SABME1_UC	(P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V16				
Identifier: DL75_V16				
Purpose: Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !DM START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?RR # # +DL85_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	DM1_NR RR1_UC(V_R)	(P)	F=1 P=1, IUT's T200 expire d
Extended Comments: Q.921 Ref. 5.8.7 Allow for RR poll due to expiry of IUT's T200				

UAB's endowment

Behaviour Description	Label	Comments/Reference	V	Comment
<p>DL75_PREAMBLE</p> <p>IFRM_KR</p> <p>START T200</p> <p>ISAME</p> <p>DL51_VERIFICATION</p> <p>DL_POSTAMBLE</p> <p>DL75_UNEXPECTED</p> <p>GOTO L750</p> <p>OTHERWISE</p> <p>DL_POSTAMBLE</p> <p>TIMEOUT T200</p> <p>DL_POSTAMBLE</p>	L750	<p>FRMR_KR1_KR</p> <p>SAME1_KR</p>	(F)	P-1
			(F)	
			(F)	

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Test Case Program - Follow-Up					
Subject: 6-120- MR-078/0-25, V27 Title: Verify D75 N20 Purpose: Verify that the IUT sends an RR#1 in response to an RR(P=I) command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR#1.					
Test Item	Behavioral Description	Label	Constraint Reference	V	Comment
*DL75 PREAMBLE *RR(V.A.: V.S)			RR1 RR(V.S)		P=1, N(R) set to V(S) of IUT
START T200 *RR	*DL71 VERIFICATION *DL POSTAMBLE *DL75 UNEXPECTED GOTO L750 OTHERWISE *DL POSTAMBLE *TIMEOUT T200 *DL POSTAMBLE	L750	RR1 RR(V.R)	(P)	P=1
				(F)	
				(F)	

Extended Comment: 3.9.21 Ref. 3.6.5

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V21 Identifier: DL75_V21 Purpose: Verify that the IUT does not respond to an RR/P=0 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RR(V_A::V_S) START T1 ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RF0_NR(V_S)	(F)	P=0, N(R) set to V(S) of IUT
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V23 Identifier: DL75_V23 Purpose: Verify that the IUT does not respond to an RR/P=0 response received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after send no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RR(V_A::V_S) START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RF0_NR(V_S)	(F)	F=0, N(R) set to V(S) of IUT
Extended Comments: Q.971 Ref. 5.6.5				

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Q.921 Ref. 5.6.5

Excited if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V26				
Identifier: DL75_V26				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL75_21_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START Td ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES))	L750	RR0_NR(N_R) IL_UC(N_R, V_R) RR1_UC(V_R)	 (P) (P) (F) (F)	 F=0 P=L.retrans mit I P=I Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V27				
Identifier: DL75_V27				
Purpose: Verify that the IUT sends an RR/F=1 in response to an RR/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_11_SETUP (N_R:=V_S-1) !RR START T200 ?RR +DL75_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L750	RR1_NC(N_R) RR1_UR(V_R)	 (P) (F) (F) I	 P=1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Description				
Behavior Description	Label	Comments Reference	V	Comments
<pre> [CAN_SEND_A_FRAME] +DL_PREAMBLE +DL_P1_SETUP (N_R::V::1) +DL_P1_SETUP (N_R::V::1) START IN P1 +DL_P1_VERIFICATION +DL_P1_POSTAMBLE +DL_P1_VERIFICATION +DL_P1_POSTAMBLE +DL_P1_UNEXPECTED GOTO L750 ?OTHERWISE +DL_P1_POSTAMBLE ?TIMEOUT IN +DL_P1_POSTAMBLE [NOT(CAN_SEND_A_FRAME)] </pre>	L750	RRO_RR(N_R)	(P)	F 0
#				P 1, ret trans m1]
#				P-1
#				(F)
#				(F)
#			I	Test not run

Extended Comments: Q.921 Ref. 5.6.5
Executed if the IUT is able to send I frame on request.

Test Case Description				
Behavior Description	Label	Comments Reference	V	Comments
<pre> [CAN_SEND_A_FRAME] +DL_P1_SETUP (N_R::V::1) START IN P1 +DL_P1_VERIFICATION +DL_P1_POSTAMBLE +DL_P1_VERIFICATION +DL_P1_POSTAMBLE +DL_P1_UNEXPECTED GOTO L750 ?OTHERWISE +DL_P1_POSTAMBLE ?TIMEOUT IN +DL_P1_POSTAMBLE [NOT(CAN_SEND_A_FRAME)] </pre>	L750	RRO_RR(N_R)	(P)	F 0
#				P 1, ret trans m1]
#				P-1
#				(F)
#				(F)
#			I	Test not run

Extended Comments: Q.921 Ref. 5.6.5
Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S75/DL75_V30 Identifier: DL75_V30 Purpose: Verify that the IUT sends an RP/F=1 in response to a REJ/P=1 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RP/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !REJ(V_A:=V_S)		REJ_LN(V_S)		P=1, N(F) set to V(S) of IUT
# # START T200 ERR +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L750	RRL_LR(V_R)	(F)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V31 Identifier: DL75_V31 Purpose: Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_FRAMEABLE !REJ(V_A::=V_S)		REJ0_NC(V_S)		P=0, N(R) set to V(S) of IUT
# # START TD ?TIMEOUT TD +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750		(P)	
			(F)	

Behaviour: Description				
Behaviour	Description	Concise Reference	V	Comments
+DL/F5 UNEXPECTED	UNEXPECTED	REL3 N6(V, S)	(F)	Yes, N6(V, S) set to V60 at 100
START TD	TIMEOUT TD			
+DL/F5 UNEXPECTED	+DL/F5 UNEXPECTED			
GOTO L750				
+DL POSTAMBLE				

Extended Comments: Q.921 Ref. 5.8.7

Behaviour: Description				
Behaviour	Description	Concise Reference	V	Comments
+DL/F5 UNEXPECTED	UNEXPECTED	REL3 N6(V, S)	(F)	Yes, N6(V, S) set to V60 at 100
START TD	TIMEOUT TD			
+DL/F5 UNEXPECTED	+DL/F5 UNEXPECTED			
GOTO L750				
+DL POSTAMBLE				

Extended Comments: Q.921 Ref. 5.6.4

Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V35				
Identifier: DL75_V35				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I Frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre>[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_I1_SETUP (N_R:=V_S-1) !REJ START Td ?I</pre>	L750	REJ0_NR(N_R) IP_UC(N_R,V_R,?)	(F) (F) (F)	F=0 Retransmit I, P=don't care
<pre>+DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE</pre>				
# #				

Extended Comments: 0.921 Ref. 5.8.7
Executed if IUT is able to send I frame on request.

Test Case Dynamics: DL75_V36				
Reference: LAPD_MFO/5/5/1/1/1_V36				
Identifier: DL75_V36				
Purpose: Verify that the IUT sends a RR P-1 in response to an RR P-1 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Post-Busy state after sending RR P-1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL75_PREAMBLE !RR(V_A::V_S)		RR1_NC(V_S)		P-0, N(R) set to V(S) of IUT
*START T200 ?RR +DL75_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L750	RR1_OR(V_R)	(P)	P-1
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamics: DL75_V47				
Reference: LAPD_MFO/5/5/1/1/1_V47				
Identifier: DL75_V47				
Purpose: Verify that the IUT sends nothing in response to an RR P-0 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Post-Busy state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL75_PREAMBLE !RR(V_A::V_S)		RR1_NC(V_S)		P-0, N(R) set to V(S) of IUT
*START T200 ?TIMEOUT T200 !RR !RR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T4 +DL_POSTAMBLE ?RR !RR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RR1_OR(V_R) RR1_OR(V_S)	(P) (I) (I) (I) (I) (F)	P-1 F-1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P-1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPP/MFO/S70/DL75_V39				
Identifier: DL75_V39				
Purpose: Verify that the IUT does not respond to an RNR/F=0 response received in Multiple Frame Established state (7.5), the IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RNR (V_A::=V_S) START T200 ?TIMEOUT T200 START T3 ?RR !RNR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RNR0_NR (V_S) RRL_UC (V_F) RNR1_NR (V_S)	(F) (1) (1) (1) (F)	F=0, N(R) set to V(S) of IUT F=1 P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing state.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V40				
Identifier: DL75_V40				
Purpose: Verify that the IUT sends an RR/F=1 in response to an RNR/P=1 with V(A) <= N(R) < V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Busy state after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_IIT_SETUP (N_R:=V_S-1) !RNR START T200 ?RR +DL75_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_A_IFRAME)} </pre>	L750	RNR1_NC(N_R)	(P)	P=1, V(A) <= N(R) < V(S)
			(F)	P=1
			(F)	
			(F)	
			I	Test not run

Reference: LAPD_M.O. 5.6.5.1 (L75_V4)				
Identified: DL75_V41				
Purpose: Verify the the IUT sends nothing in response to an RR(P=1) with V(A)=N(R)=V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Conditio n Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_11_SETUP (N_R: V_S: 1) !RNR		RNR0_NR(N_R)		F: 0, V(A): N (R): V(S)
START T200 ?TIMEOUT T200 START Td ?RR !RNR	L750	RNR1_UC(V_R) RNR1_NR(V_S)	(P) F: 1	P=1 F: 1
#+DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RNR1_UC(V_R) RNR1_NR(V_S)	(I) (I) (I) (F)	P=1 F=1
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

Reference: LAPD_M.O. 5.6.5.2 (L75_V4)				
Identified: DL75_V41				
Purpose: Verify that the IUT does not respond to an RR(P=1) response with V(A)=N(R)=V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Conditio n Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_11_SETUP (N_R: V_S: 1) !RNR		RNR0_NR(N_R)		F: 0, V(A): N (R): V(S)
START T200 ?TIMEOUT T200 START Td ?RR !RNR	L750	RNR1_UC(V_R) RNR1_NR(V_S)	(P)	P=1 F: 1
#+DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RNR1_UC(V_R) RNR1_NR(V_S)	(I) (I) (I) (F)	P=1 F=1
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V44				
Identifier: DL75_V44				
Purpose: Verify that the IUT sends an RR/F=1 in response to an I frame received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE ! I(V_A::=V_S)		I1_NC(V_R, V_S)		P=1, N(R) set to V(S) , N(S) set to V(R) of IUT
#				
#				
#				
#				
START T200 (V_R::=V_R+1)				
?RR				
+DL74_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
	L750	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V45				
Identifier: DL75_V45				
Purpose: Verify that the IUT sends an RR/F=0 in response to an I/P=0 received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE ! I(V_A::=V_S)		I0_NC(V_R, V_S)		P=0, N(R) set to V(S) , N(S) set to V(R) of IUT
#				
#				
#				
#				
START T200 (V_R::=V_R+1)				
?RR				
+DL74_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
	L750	RR0_UR(V_R)	(P)	F=0
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

	Behaviour Description	Label	Condition Reference	V	Comments
#	*DL75_PREAMBLE		JLN_R,S,		P=1, N(R)
#	(N S:: V S+1)		V P)		set to V(S)
#	!!(V A:=V S)				, N(S) not
#					set to V(R)
#					of IUT
	START T200	L75Q	KRL_UR(V,R)	(P)	F=1
	*RR				
	+DL75_VERIFICATION				
	+DL_POSTAMBLE				
	+DL75_UNEXPECTED				
	GOTO L750				
	?OTHERWISE				
	+DL_POSTAMBLE				
	?TIMEOUT T200				
	+DL_POSTAMBLE				

Test Case Definition Behaviour				
Test Case ID	Test Case Description	Label	Condition/Reference	Comments
TC001	Initialisation and Setup			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC002	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC003	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC004	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC005	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC006	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC007	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC008	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC009	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC010	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC011	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC012	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC013	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC014	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC015	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC016	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC017	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC018	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC019	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC020	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			
	3. Set up test data.			
	4. End of test case.			
TC021	Test Case Description			
	1. Set up test environment.			
	2. Initialize variables.			

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V48				
Identifier: DL75_V48				
Purpose: Verify that the IUT sends a RR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to enter Multiple Frame Established Peer receiver Busy state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL75_2I_SETUP (N_R:=V_S-1) ! I		IL_NC(V_R, N_R)		P=1, V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START T200 (V_R:=V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES))	L750	RR1_OR(V_R)	(P)	F=1
#				
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V49				
Identifier: DL75_V49				
Purpose: Verify that the IUT sends a RR/F=0 in response to an I/P=0 received with V(A)<N(R)<V(S) in Multiple Frame Established state (7.5). The IUT is expected to enter in Multiple Frame Established Peer receiver busy state after sending RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL75_2I_SETUP (N_R:=V_S-1) ! I		IO_NC(V_R, N_R)		P=0, V(A)<N (R)<V(S), N (S) set to V(R) of IUT
#				
#				
#				
START T200 (V_R:=V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES))	L750	RR0_OR(V_R)	(P)	F=0
#				
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

Table B.6. Dynamic entry table					
Reference: LAMP Message 16, 17, 18, V20	Event: get_v_N	Purpose: Verify that the IUT sends a RSP1 in response to an IReq1 frame with V(N)=V(N) and M(1)=V(N) in the expected direction. The IUT is expected to remain in Multiple Frame Established upon receiving RSP1 before Recovery state after sending RSP1.	State: V	Event: V	Comment
<pre> CAN_SEND_FRAME() *DL70_FFRAME *DL75_P1_FRAME (N_R := V_3, N_S := V_R(1)) ; START_TQ0 PRN *DL75_VERIFICATION *DL_POSTFRAME *DL75_UNEXPECTED GOTO L750 OTHERWISE *DL_POSTFRAME *TIMEOUT_T200 *DL_POSTFRAME [NOT(CAN_SEND_FRAME()) </pre>	<pre> L750 ERR_OR(V_R) ; </pre>	<pre> L750 ERR_OR(V_R) ; </pre>	<pre> L750 ERR_OR(V_R) ; </pre>	<pre> L750 ERR_OR(V_R) ; </pre>	<pre> P: V(N)=N OR: V(N)=N END: not set L750: V(R) of IUT ; </pre>

[8]
Continued on next page

Test Case Dynamics Behaviour				
Reference: M00177/Ph/Ps_Vs1	Test Case: Ph/Ps_Vs1	Test Case: Ph/Ps_Vs1	Test Case: Ph/Ps_Vs1	Test Case: Ph/Ps_Vs1
1.0	1.0	1.0	1.0	1.0
2.0	2.0	2.0	2.0	2.0
3.0	3.0	3.0	3.0	3.0
4.0	4.0	4.0	4.0	4.0
5.0	5.0	5.0	5.0	5.0
6.0	6.0	6.0	6.0	6.0
7.0	7.0	7.0	7.0	7.0
8.0	8.0	8.0	8.0	8.0
9.0	9.0	9.0	9.0	9.0
10.0	10.0	10.0	10.0	10.0
11.0	11.0	11.0	11.0	11.0
12.0	12.0	12.0	12.0	12.0
13.0	13.0	13.0	13.0	13.0
14.0	14.0	14.0	14.0	14.0
15.0	15.0	15.0	15.0	15.0
16.0	16.0	16.0	16.0	16.0
17.0	17.0	17.0	17.0	17.0
18.0	18.0	18.0	18.0	18.0
19.0	19.0	19.0	19.0	19.0
20.0	20.0	20.0	20.0	20.0
21.0	21.0	21.0	21.0	21.0
22.0	22.0	22.0	22.0	22.0
23.0	23.0	23.0	23.0	23.0
24.0	24.0	24.0	24.0	24.0
25.0	25.0	25.0	25.0	25.0
26.0	26.0	26.0	26.0	26.0
27.0	27.0	27.0	27.0	27.0
28.0	28.0	28.0	28.0	28.0
29.0	29.0	29.0	29.0	29.0
30.0	30.0	30.0	30.0	30.0
31.0	31.0	31.0	31.0	31.0
32.0	32.0	32.0	32.0	32.0
33.0	33.0	33.0	33.0	33.0
34.0	34.0	34.0	34.0	34.0
35.0	35.0	35.0	35.0	35.0
36.0	36.0	36.0	36.0	36.0
37.0	37.0	37.0	37.0	37.0
38.0	38.0	38.0	38.0	38.0
39.0	39.0	39.0	39.0	39.0
40.0	40.0	40.0	40.0	40.0
41.0	41.0	41.0	41.0	41.0
42.0	42.0	42.0	42.0	42.0
43.0	43.0	43.0	43.0	43.0
44.0	44.0	44.0	44.0	44.0
45.0	45.0	45.0	45.0	45.0
46.0	46.0	46.0	46.0	46.0
47.0	47.0	47.0	47.0	47.0
48.0	48.0	48.0	48.0	48.0
49.0	49.0	49.0	49.0	49.0
50.0	50.0	50.0	50.0	50.0
51.0	51.0	51.0	51.0	51.0
52.0	52.0	52.0	52.0	52.0
53.0	53.0	53.0	53.0	53.0
54.0	54.0	54.0	54.0	54.0
55.0	55.0	55.0	55.0	55.0
56.0	56.0	56.0	56.0	56.0
57.0	57.0	57.0	57.0	57.0
58.0	58.0	58.0	58.0	58.0
59.0	59.0	59.0	59.0	59.0
60.0	60.0	60.0	60.0	60.0
61.0	61.0	61.0	61.0	61.0
62.0	62.0	62.0	62.0	62.0
63.0	63.0	63.0	63.0	63.0
64.0	64.0	64.0	64.0	64.0
65.0	65.0	65.0	65.0	65.0
66.0	66.0	66.0	66.0	66.0
67.0	67.0	67.0	67.0	67.0
68.0	68.0	68.0	68.0	68.0
69.0	69.0	69.0	69.0	69.0
70.0	70.0	70.0	70.0	70.0
71.0	71.0	71.0	71.0	71.0

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[1]

Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(CAN_SEND_IFRAMES)] +DL_POSTAMBLE			I	Test not run
#				

Extended Comments: Q.921 Ref. 5.8.1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V52 Identifier: DL75_V52 Purpose: Verify that the IUT sends a RR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to enter Multiple Frame Established Peer Receiver Busy state after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_II_SETUP (N_R:=V_S-1) ! I START T200 (V_R:=V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L750	II_NC(V_R, N_R)	(P)	P=1, V(A)=N(R)<V(S), N(S) set to V(R) of IUT
#				
#				
#				
			(F)	
			(F)	
			I	Test not run

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Extended Comments: Q.921 Ref. 5.6.2.1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_V53 Identifier: DL75_V53 Purpose: Verify that the IUT sends a RR/F=0 in response to an I/P=0 received with V(A)=N(R)<V(S) in Multiple Frame Established state (7.5). The IUT is expected to enter in Multiple Frame Established Peer Receiver Busy state after sending RR/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_II_SETUP (N_R:=V_S-1) ! I START T200 (V_R:=V_R+1) ?RR +DL74_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L750	II_NC(V_R, N_R)	(P)	P=0, V(A)=N(R)<V(S), N(S) set to V(R) of IUT
#				
#				
#				
			(F)	
			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.6.2.2

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/S75/DL75_V55					
Identifier: DL75_V55					
Purpose: Verify that the IUT sends nothing in response to an I/P 0					
Frame with V(A) N(R)>V(S) and N(S)<V(R) received in Multiple-Frame Established state (7.5). The IUT is expected to remain in Multiple-Frame Established Peer Receiver Busy/Reject Recovery state.					
Default:					
Behaviour Description	Label	Constraints/Reference	V	Comments	
[CAN_SEND_A_FRAME] +DL70_PREAMBLE +DL75_I1_SETUP (N_R := V_S-1, N_S := V_R+1) !1		I0_NC(N_S, N_R)		P=0, V(A)=N (R)>V(S), N (S) not set to V(R) of IUT	
START T200 (T200value-DELTA) ?TIMEOUT T200	L750				
START T200 ?RR	L751	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200	
+DL85_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L751 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)		
?RR		RR1_UC(V_R)	(I)		
+DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE			(F)	Fail poll received before expiry of T200	

[8]
Continued on next page

Test Case	Dynamic Behaviour
Reference: LAPD/MFO/S75/Du75_V57 Identifier: Du75_V57 Purpose: Verify that the IUT sends an RNR/F=0 when it sets OWN_BUSY in Multiple Frame Established state (7.5). The IUT is expected to enter Multiple Frame Established Own Busy state after sending RNR/F=0. Defaults:	

Behaviour Description	Label	Constraints Reference	V	Comments
Default:				

Behaviour Description	Label	Comments Reference	V	Comments
-----------------------	-------	--------------------	---	----------

	L750	RNR0_UR(V_R)	(P)	F=0
<pre> ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Topr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)] </pre>			(F)	
			(F)	
			I	Test not Run

Extended Comments: Q. 921 Ref. 5.6.6
 Executed if IPR is able to set own busy on request.

Extended Comments:Q.921 Ref. 5.6.6
Executed if IUT is able to set own busy on request.

[illegible]

Net Case Dynamic Behaviour			
Reference: LAMP/MFO/N/P/10/P/5_R02			
Identified: DL75_R02			
Purpose: Verify that the IUT sends a SABME/P-1 in response to an RR/P-0 command with an N(R) error received in Multiple frame Established state (7-5). The IUT is expected to enter Awaiting establishment state after sending SABME/P-1.			
Default:			
Behaviour Description	Label	Constraints Reference	V
DL75_PREAMBLE (N_R := V_3(K+1)) !RR START T200 ?SABME *DL51_VERIFICATION *DL_POSTAMBLE *DL75_UNEXPECTED GOTO L750 ?OTHERWISE *DL_POSTAMBLE ?TIMEOUT T200 *DL_POSTAMBLE	L750	RFO_NC(N_R) SABME1_UC	P=0 P=1 (P) (F) (F)

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_N03 Identifier:DL75_N03 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/P=1 response with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_R::=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	RR1_NR(N_R) SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_N04 Identifier:DL75_N04 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/P=0 with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_R::=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	RR0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

[illegible]

Net Case Dynamic Behaviour				
Reference: LAMP, M.O. 375, DL75, R06 L3-Data Base: DL75, R06 Purpose: Verify that the IUT sends a SARME/F-1 in response to a REC/P-0 command with an R(R) error received in Multiple Frame Established state (7.2). The IUT is expected to enter Awaiting Establishment state after sending SARME/F-1.	Label	Constraints, Re-Entrance	V	Comments
<pre>+DL75_INITIAL (R_R): V.3*(P+1) REJ START T200 ?SARME +DL75_VERIFICATION +DL_POSTABLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE</pre>	L750	REC0_NC(N,R) SARME1_UC	(P) (P)	P-0 P-1
				(F) (F)

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_N07 Identifier:DL75_N07 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 Response with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_R:=V_S+(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	REJ1_NR(N_R) SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_N08 Identifier:DL75_N08 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_R:=V_S+(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	REJ0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments:Q.921 Ref. 5.8.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MFC/S75/DL75_N09				
Identifier: DL75_N09				
Purpose: Verify that the IUT sends an RR/P=1 and a SABME/P=1 in response to an RR/P=1 command with a N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE				
?RR		RRR1_NC(N_R)		P=1
START T200				
?RR	L750	RR1_UR(V_R)		P=1
START Td				
?SABME	L751	SABMEL_UC	(P)	P=1
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L751				
?OTHERWISE				
+DL_POSTAMBLE			(F)	(F)
?TIMEOUT Td			(F)	(F)
+DL_POSTAMBLE				
?SABME				
+DL51_VERIFICATION				
+DL_POSTAMBLE		SABMEL_UC	(P)	P=1
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				
+DL_POSTAMBLE			(F)	(F)
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAKD/MFO/J75/DL75_N11				
Identifier: DL75_N11				
Purpose: Verify that the IUT sends a SAPME/P=1 in response to an RNR/P=1 Response with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SAPME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE				
!RNR				P=1
START T200				
?CAHME	L750	SAPME_UC	(F)	P=1
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				(F)
+DL_POSTAMBLE				
?TIMEOUT T200				(F)
+DL_POSTAMBLE				

Extended Comments: IQ.92 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAHVMFO/S75/4L75_N12				
Identifier: DL75_N12				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RRR/P=0 response with an N(R) error received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_I_READY				
!RRR				
START T200				P=0
?SABME				
+DL51_VERIFICATION				
+DL_POSTAMBLE	L750	RRR0_NR(N_R)		
+DL75_UNEXPECTED				
GOTO L750		SABME1_UC	(P)	P=1
?OTHERWISE				
+DL_POSTAMBLE			(F)	
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Test Case				
Reference: LALC-MPO-575-DL75-NL3 Identifiers: DL75-NL3 Purpose: Verify that the IUT sends an RR1 and a SABME1 in response to an L1-L frame with an N(R) error received in Multiple Frame Established state (7.8), the IUT is expected to enter Waiting Establishment state after sending SABME1.				
Post-Init:	Behaviour Description	Label	Consistent Reference	V Comments
	+DL75_PREAMBLE (N_R : V_S*(K+1)) !1		L1_NC (V_R, N_R)	(F)
	START T200 (V_R : V_R+1) ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L751 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750 L751	RR1_OR(V_R) SABME_UC	(F) (F) (F)
	?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		SABME_UC	(F)

Extended Comments: 0.921 Ref. 5.8.2

Reference	Label	Constituents Reference	V	Comments
Reference 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.5, 1.3.6, 1.3.7, 1.3.8, 1.3.9, 1.3.10, 1.3.11, 1.3.12, 1.3.13, 1.3.14, 1.3.15, 1.3.16, 1.3.17, 1.3.18, 1.3.19, 1.3.20, 1.3.21, 1.3.22, 1.3.23, 1.3.24, 1.3.25, 1.3.26, 1.3.27, 1.3.28, 1.3.29, 1.3.30, 1.3.31, 1.3.32, 1.3.33, 1.3.34, 1.3.35, 1.3.36, 1.3.37, 1.3.38, 1.3.39, 1.3.40, 1.3.41, 1.3.42, 1.3.43, 1.3.44, 1.3.45, 1.3.46, 1.3.47, 1.3.48, 1.3.49, 1.3.50, 1.3.51, 1.3.52, 1.3.53, 1.3.54, 1.3.55, 1.3.56, 1.3.57, 1.3.58, 1.3.59, 1.3.60, 1.3.61, 1.3.62, 1.3.63, 1.3.64, 1.3.65, 1.3.66, 1.3.67, 1.3.68, 1.3.69, 1.3.70, 1.3.71, 1.3.72, 1.3.73, 1.3.74, 1.3.75, 1.3.76, 1.3.77, 1.3.78, 1.3.79, 1.3.80, 1.3.81, 1.3.82, 1.3.83, 1.3.84, 1.3.85, 1.3.86, 1.3.87, 1.3.88, 1.3.89, 1.3.90, 1.3.91, 1.3.92, 1.3.93, 1.3.94, 1.3.95, 1.3.96, 1.3.97, 1.3.98, 1.3.99, 1.3.100, 1.3.101, 1.3.102, 1.3.103, 1.3.104, 1.3.105, 1.3.106, 1.3.107, 1.3.108, 1.3.109, 1.3.110, 1.3.111, 1.3.112, 1.3.113, 1.3.114, 1.3.115, 1.3.116, 1.3.117, 1.3.118, 1.3.119, 1.3.120, 1.3.121, 1.3.122, 1.3.123, 1.3.124, 1.3.125, 1.3.126, 1.3.127, 1.3.128, 1.3.129, 1.3.130, 1.3.131, 1.3.132, 1.3.133, 1.3.134, 1.3.135, 1.3.136, 1.3.137, 1.3.138, 1.3.139, 1.3.140, 1.3.141, 1.3.142, 1.3.143, 1.3.144, 1.3.145, 1.3.146, 1.3.147, 1.3.148, 1.3.149, 1.3.150, 1.3.151, 1.3.152, 1.3.153, 1.3.154, 1.3.155, 1.3.156, 1.3.157, 1.3.158, 1.3.159, 1.3.160, 1.3.161, 1.3.162, 1.3.163, 1.3.164, 1.3.165, 1.3.166, 1.3.167, 1.3.168, 1.3.169, 1.3.170, 1.3.171, 1.3.172, 1.3.173, 1.3.174, 1.3.175, 1.3.176, 1.3.177, 1.3.178, 1.3.179, 1.3.180, 1.3.181, 1.3.182, 1.3.183, 1.3.184, 1.3.185, 1.3.186, 1.3.187, 1.3.188, 1.3.189, 1.3.190, 1.3.191, 1.3.192, 1.3.193, 1.3.194, 1.3.195, 1.3.196, 1.3.197, 1.3.198, 1.3.199, 1.3.200, 1.3.201, 1.3.202, 1.3.203, 1.3.204, 1.3.205, 1.3.206, 1.3.207, 1.3.208, 1.3.209, 1.3.210, 1.3.211, 1.3.212, 1.3.213, 1.3.214, 1.3.215, 1.3.216, 1.3.217, 1.3.218, 1.3.219, 1.3.220, 1.3.221, 1.3.222, 1.3.223, 1.3.224, 1.3.225, 1.3.226, 1.3.227, 1.3.228, 1.3.229, 1.3.230, 1.3.231, 1.3.232, 1.3.233, 1.3.234, 1.3.235, 1.3.236, 1.3.237, 1.3.238, 1.3.239, 1.3.240, 1.3.241, 1.3.242, 1.3.243, 1.3.244, 1.3.245, 1.3.246, 1.3.247, 1.3.248, 1.3.249, 1.3.250, 1.3.251, 1.3.252, 1.3.253, 1.3.254, 1.3.255, 1.3.256, 1.3.257, 1.3.258, 1.3.259, 1.3.260, 1.3.261, 1.3.262, 1.3.263, 1.3.264, 1.3.265, 1.3.266, 1.3.267, 1.3.268, 1.3.269, 1.3.270, 1.3.271, 1.3.272, 1.3.273, 1.3.274, 1.3.275, 1.3.276, 1.3.277, 1.3.278, 1.3.279, 1.3.280, 1.3.281, 1.3.282, 1.3.283, 1.3.284, 1.3.285, 1.3.286, 1.3.287, 1.3.288, 1.3.289, 1.3.290, 1.3.291, 1.3.292, 1.3.293, 1.3.294, 1.3.295, 1.3.296, 1.3.297, 1.3.298, 1.3.299, 1.3.300, 1.3.301, 1.3.302, 1.3.303, 1.3.304, 1.3.305, 1.3.306, 1.3.307, 1.3.308, 1.3.309, 1.3.310, 1.3.311, 1.3.312, 1.3.313, 1.3.314, 1.3.315, 1.3.316, 1.3.317, 1.3.318, 1.3.319, 1.3.320, 1.3.321, 1.3.322, 1.3.323, 1.3.324, 1.3.325, 1.3.326, 1.3.327, 1.3.328, 1.3.329, 1.3.330, 1.3.331, 1.3.332, 1.3.333, 1.3.334, 1.3.335, 1.3.336, 1.3.337, 1.3.338, 1.3.339, 1.3.340, 1.3.341, 1.3.342, 1.3.343, 1.3.344, 1.3.345, 1.3.346, 1.3.347, 1.3.348, 1.3.349, 1.3.350, 1.3.351, 1.3.352, 1.3.353, 1.3.354, 1.3.355, 1.3.356, 1.3.357, 1.3.358, 1.3.359, 1.3.360, 1.3.361, 1.3.362, 1.3.363, 1.3.364, 1.3.365, 1.3.366, 1.3.367, 1.3.368, 1.3.369, 1.3.370, 1.3.371, 1.3.372, 1.3.373, 1.3.374, 1.3.375, 1.3.376, 1.3.377, 1.3.378, 1.3.379, 1.3.380, 1.3.381, 1.3.382, 1.3.383, 1.3.384, 1.3.385, 1.3.386, 1.3.387, 1.3.388, 1.3.389, 1.3.390, 1.3.391, 1.3.392, 1.3.393, 1.3.394, 1.3.395, 1.3.396, 1.3.397, 1.3.398, 1.3.399, 1.3.400, 1.3.401, 1.3.402, 1.3.403, 1.3.404, 1.3.405, 1.3.406, 1.3.407, 1.3.408, 1.3.409, 1.3.410, 1.3.411, 1.3.412, 1.3.413, 1.3.414, 1.3.415, 1.3.416, 1.3.417, 1.3.418, 1.3.419, 1.3.420, 1.3.421, 1.3.422, 1.3.423, 1.3.424, 1.3.425, 1.3.426, 1.3.427, 1.3.428, 1.3.429, 1.3.430, 1.3.431, 1.3.432, 1.3.433, 1.3.434, 1.3.435, 1.3.436, 1.3.437, 1.3.438, 1.3.439, 1.3.440, 1.3.441, 1.3.442, 1.3.443, 1.3.444, 1.3.445, 1.3.446, 1.3.447, 1.3.448, 1.3.449, 1.3.450, 1.3.451, 1.3.452, 1.3.453, 1.3.454, 1.3.455, 1.3.456, 1.3.457, 1.3.458, 1.3.459, 1.3.46				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N15				
Identifier: DL75_N15				
Purpose: Verify that the IUT sends an RR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)~=V(R) received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default: SABME/P=1.				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_S:=V_R+1, N_R:=V_S+(K+1)) ! I		I1_NC(N_S, N_R)		P=1
#				
START T200				
?RR				
START Td	L750	RR1_UR(V_R)		F=1
?SABME				
+DL51_VERIFICATION	L751	SABME1_UC	(P)	P=1
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L751				
?OTHERWISE				
+DL_POSTAMBLE			(F)	(F)
?TIMEOUT Td			(F)	(F)
+DL_POSTAMBLE				
?SABME				
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				
+DL_POSTAMBLE			(F)	(F)
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N16				
Identifier: DL75_N16				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)~=V(R) received in Multiple Frame Established state (7.5). The IUT is expected to Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE (N_S:=V_R+1, N_R:=V_S+(K+1)) ! I		I0_NC(N_S, N_R)		P=0
#				
START T200				
?SABME	L750	SABME1_UC	(P)	P=1
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL75_UNEXPECTED				
GOTO L750				
?OTHERWISE				
+DL_POSTAMBLE			(F)	(F)
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

ADP Performance Testing

Test Case Dynamic Behaviour			
Reference: LAMP/REF0157/01/5_N17	Behaviour Description	Label	Constraints
<p>Identifier: DL75_N17</p> <p>Purpose: Verify that the IUT sends a SAME/P=1 in response to a SAME of incorrect length received in Multiple Frame Established state (7.5). the IUT is expected to enter Awaiting Establishment state after sending SAME/P=1.</p> <p>Default:</p>	<pre> +DL75_PREAMBLE !SAME_TL START "M ?SAME +DL51_VERIFICATION +DL6_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL6_POSTAMBLE ?TIMEOUT "M +DL6_POSTAMBLE </pre>	L750	<p>SAME_TL_NC</p> <p>SAME_L_DC</p> <p>(P)</p> <p>(P)</p> <p>(F)</p> <p>(F)</p>

LAPD Conformance Testing.

Test Case Behaviour				
Reference: LAD/MO/575/10.75.118				
Identified: PL75.118				
Purpose: Verify that the IUT sends a SAMME/P.1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P.1.				
Excluded:				
Behaviour Description	Label	Constraint Reference	V	Comment S
PL75.118.1 FRAMEABLE				
DISC.TL		DISC_TL.1_NC		P=1
START.M				
SAMME	L750	SAMME_UC	(F)	P=1
4DL.1 VERIFICATION				
+DL_POSTAMBLE				
4DL75. UNEXPECTED				
COTO L750				
OTHERWISE				
+DL_POSTAMBLE			(F)	
PTIMEOUT.M				
+DL_POSTAMBLE			(F)	

Extended Comment 3:0.92 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N19 Identifier: DL75_N19 Purpose: Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !UA_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	UA_TL1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N20 Identifier: DL75_N20 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !DM_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	DM_TL1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/3.1/7.5_N2.1				
Identifier: DL75_N2.1				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE ?FRMR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TD +DL_POSTAMBLE	L750	FRMR_TL1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/3.1/7.5_N2.2				
Identifier: DL75_N2.2				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE ?RR_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TD +DL_POSTAMBLE	L750	RR_TL1_NC (V_S) SABME1_UC	(P)	P=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N23				
Identifier: DL75_N23				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RNR_TL		RNR_TLL_NC (V,S)		P=1
#				
START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L750	SABME_UC	(F)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: 0, 01 Ref. 5, 7, 1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_N24				
Identifier: DL75_N24				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !REJ_TL		REJ_TLL_NC (V,S)		P=1
#				
START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L750	SABME_UC	(F)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: 0, 9, 1 Ref. 5, 7, 1				

Test Case Dynamic Behaviour				
Reference: LAPD-MPC-875-PL-35, N26				
Identifier: DL/5, N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an frame with excess length (N201 error) received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE ! I_TL START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L750	L_TL1_NC (V_R, V_S) SABME1_UC	(F) (F) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD-MPC-875-PL-75, N26				
Identifier: DL/5, N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an undefined command received in Multiple Frame Established state (7.5). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !UNDEF START TD ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE	L750	UNDEF1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_N27				
Identifier:DL75_N27				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.5P). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L750	SABME_TL1_NC SABME1_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S75/DL75_I01				
Identifier:DL75_I01				
Purpose:Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RR(V_A:=V_S) # # START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RR1_NR(V_S)	(P)	F=1, N(R) set to V(S) of IUT
Extended Comments:Q.921 Ref. 5.8.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_102				
Identifier: DL75_102				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL75_2I_SETUP (N_R::V_S-1) !RR(V_A::N_R) START Td ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_IFRAMES))	L750	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	 (F) (F) (F) (F) I	 F=1 F=1, retransmit I F=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDU or change state when a MDL_ERR_INDICATION(A) is generated.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S75/DL75_103				
Identifier: DL75_103				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_1I_SETUP (N_R::V_S-1) !RR START Td ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L750	RR1_NR(N_R) I1_UC(N_R, V_R) RR1_UC(V_R)	 (P) (P) (F) (F) I	 F=1 F=1, retransmit I F=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S75/DL75_I05				
Identifier: DL75_I05				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ/F=1 response with V(A)<=N(R)<V(S). The IUT is expected to remain Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_1I_SETUP (N_R:=V_S-1) !REJ START Td ?I </pre>	L750	REJ1_NR(N_R)	(F)	F=1
<pre> +DL71_VERIFICATION +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>		IP_UC(N_R,V_R, ,?)	(F)	Retransmit I, P=don't care
			(F)	
			(F)	
			I	Test not run

Extended Comments:Q.921 Ref. 5.8.7

Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MQoS/5/DL75_106				
Identifier: DL75_106				
Purpose: Verify that the IUT sends nothing in response to an RNR/F-1 response received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL75_PREAMBLE !RNR(V_A::V_S) # # START T200 ?TIMEOUT T200 START T3 ?RR !RNR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE	L750	RNR1_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	(F) (F) (I) (I) (F)	F=1, N(R) set to V(S) of IUT F=1 F=1 F=1 F=1
Extended Comments: Q.921 Ref. 5.8.7 Tester responds to an RR(F=1) from the IUT to keep the IUT from changing states.				

Test Case Dynamic Behaviour				
Reference: LAPD/MQoS/5/DL75_107				
Identifier: DL75_107				
Purpose: Verify that the IUT sends nothing in response to an RNR/F-1 response with $V(A) \cdot N(R) < V(S)$ received in Multiple Frame Established state (7.5). The IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL75_11_SETUP (N_R::V_S-1) !RNR START T200 ?TIMEOUT T200 START T3 ?RR !RNR +DL75_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR !RNR +DL_POSTAMBLE +DL75_UNEXPECTED GOTO L750 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L750	RNR1_NR(N_R) RNR1_UC(V_S) RNR1_NR(V_S)	(I) (I) (I) (F)	F=1, V(A) < N(R) < V(S) F=1 F=1
Extended Comments: Q.921 Ref. 5.8.7 Tester responds to an RR(F=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/S76_V01 Identifier: DL76_V01 Purpose: Verify that the IUT can send a SABME/P=1 in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_SABME] +DL76_PREAMBLE <IUT!SABME> START Topr ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?NR !NR GOTO L760 +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)] </pre>	L760	SABME1_UC NRn1_UC(V_R) NRn1_NR(V_S)	(P) (F) (F) I	REQ. SABME P=1 P=1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.5.1.2 Executed if IUT is able to send SABME/P=1 on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S76/DL76_V03 Identifier: DL76_V03 Purpose: Verify that the IUT does not send an I frame when V(S)<V(A)+k (ie. window is open) in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after queuing the I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL76_PREAMBLE <IUT:I> START Topr ?TIMEOUT Topr !RR	L760	RR0_NR(V_S)		P=0, clear peer busy
# START Td ? I (V_S:=V_S+1) +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L761	I0_UC(V_S, V_R)	(P)	P=0
?RR !RNR GOTO L760 +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RR1_UC(V_R) RRR1_NR(V_S)	(F) (F)	P=1 F=1
#			(F)	Test not run

Extended Comments: Q.921 Ref. 5.6.1
 Executed if IUT is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD-MPO-S76 DL76_V04				
Identifies: DL76_V04				
Purpose: verify that the IUP does not send an I frame (opened) when V (S) V(A)+K (window is closed) in Multiple Frame Established state (7.6). The IUP is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_MC_SETUP START Td ?NR (N_R: = V_S) !RR	L760	RNR1_UC(V_R) RNR1_NR(N_R)		P=1 Fail,ack all I frames
START Td ?1(N_R:=-I,N_R) (V_S:=-V_S+1, N_R: !RR	L761	LO_UC(V_S, V_R) RR0_NR(N_R)	(P)	P=0
#:=V_S				F=0
#+DL72_VERIFICATION				
#+DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F) (F) (F) (F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.1				

Continued on next page

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Executed if IUP is able to send I frame on request.

Test Case Dynamic Behaviour				
Reference: LAPD-MPO-S76 DL76_V08				
Identifies: DL76_V08				
Purpose: verify that the IUP sends a UA/P=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.6). The IUP is expected to remain in Multiple Frame established state after sending the UA/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !SABME START T200 ?UA (V_S:=-V_R:=-0,V_A:=-0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L760 +DL76_UNEXPECTED ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	SABME_NC UA1_UR	(P) (P)	P=1 F=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V10 Identifier: DL76_V10 Purpose: Verify that the IUT sends a UA/F=0 in response to a SAME/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !SAME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	SAME0_NC UA0_UR	 (F) (F) (F)	 F=0 F=0
Extended Comments: Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V12 Identifier: DL76_V12 Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter TEJ Assigned state after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	DISC1_NC UAL_UR	 (P) (F) (F)	 P=1 P=1
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD (Conformance Testing)

Test Case Dynamic Behaviour					
Reference: LAP/MFO/576/DL7C_V13					
Goal Identifier: DL7C_V13					
Purpose: Verify that the IUT sends a UA/F 0 in response to a DTCT/F 0 received in Multiple Frame Established state (1.6). The IUT is expected to enter the Assigned state after sending UA/F 0.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL7C_PREAMBLE					
+DTCT					
+START T200					
+UA	L760	UA0_UN	(F)	F 0	
+DL40_VERIFICATION					
+DL_POSTAMBLE					
+DL7C_UNEXPECTED					
+GOTO L760					
+OTHERWISE					
+DL_POSTAMBLE			(F)		
+TIMEOUT T200					
+DL_POSTAMBLE			(F)		

Extended Comment s: Q. 92 Ref.: 5.5.3.2

1 AP) (‘conformative’ testing).

V3.1 Case Dynamic Behaviour				
Reference: LAD, MTO, 76/02.76 V14				
Identif.: 96/P ₀ V14				
Purpose: Verify that the IUT sends a SAMME/P-1 in response to a DM/P-0 in Multiple Frame Establishment state (7.6). The IUT is expected to enter Awaiting Establishment state after sending the SAMME/P-1.				
Default :				
Behaviour Description	Label	Constraint Reference	V	Comment s
*DL76_PREAMBLE				
*DM				P=0
START T200		DMO_RR		
3SAMME				
+DL51_VERIFICATION				
+DL ₆ _POSTTABLE				
+DL76_UNEXPECTED		SAMME_UC	(P)	P=1
GOTO L760	L760			
?OTHERWISE				
+DL ₆ _POSTTABLE			(P)	
?TIMEOUT T200				
+DL_POSTTABLE			(P)	

Extended Comment s: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V16 Identifier:DL76_V16 Purpose:Verify that the IUT sends nothing in response to a DM/F=1 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !DM START T200 (T200value - DELTA) ?TIMEOUT T200 START T200 ?RNR # # +DL86_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	DM1_NR RNR1_UC(V_R)	 (F) (F) (F) (F)	 F=1 P=1, IUT's T200 expire d
Extended Comments:Q.921 Ref. 5.8.7 Allow for RNR poll due to expiry of IUT's T200				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V17 Identifier:DL76_V17 Purpose:Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	FRMR_RR1_NR SABME1_UC	 (P) (F) (F)	 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/RFO/S/6/DL76_V20 Identifier: DL76_V20 Purpose: Verify that the IUT sends an RNR/F-1 in response to an RR/P-1 command received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RR(V_A:=V_S) # # START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RR1_NC(V_S) RNR1_UR(V_R)	 (P) (F) (F)	P-1, N(R) set to V(S) of IUT F-1
Extended Comments: Q.921 Ref. 5.6.5				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/RFO/S/6/DL76_V21 Identifier: DL76_V21 Purpose: Verify that the IUT does not respond to an RR/P-0 command received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RR(V_A:=V_S) # # START TD ?TIMEOUT TD +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	RR0_NC(V_S)	 (P) (F)	P-0, N(R) set to V(S) of IUT
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V23				
Identifier:DL76_V23				
Purpose:Verify that the IUT does not respond to an RR/F=0 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after send no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RR(V_A::=V_S)		RR0_NR(V_S)		F=0, N(R) set to V(S) of IUT
# # START Td ?TIMEOUT T3 +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760		(P)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V24				
Identifier:DL76_V24				
Purpose:Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_2I_SETUP (N_R:=V_S-1) !RR(V_A:=N_R) START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L760	RR1_NC(N_R) RNR1_UR(V_R)	(P) (F) (F) I	P=1 F=1 Test not run
#				
Extended Comments:Q.921 Ref. 5.6.5 Executed if IUT is able to send SABME on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MFO/S/6/DL/6_V2/5 Identifier: DL76_V2/5 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 command with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_21_SETUP (N_R::V_S-1) !RR(V_A::=N_R) START TD ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L760	RR0_NC(N_R) I1_UC(N_R, V_R) RNR1_UC(V_R)	P=0 (P) (P) (F) (F) I	P=0 P=1, retrans mit I frame P=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD_MFO/S/6/DL/6_V2/6 Identifier: DL76_V2/6 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=0 response with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_21_SETUP (N_R::V_S-1) !RR(V_A::=N_R) START TD ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L760	RR0_NR(N_R) I1_UC(N_R, V_R) RNR1_UC(V_R)	(P) (P) (P) (F) (F) I	F=0 P=1, retrans mit I P=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V27				
Identifier: DL76_V27				
Purpose: Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending the I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_II_SETUP (N_R:=V_S-1) !RR START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L760	RR1_NC(N_R) RNR1_UR(V_R)	 (P) (F) (F) I	 P=1 F=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V28				
Identifier: DL76_V28				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/P=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_II_SETUP (N_R:=V_S-1) !RR START Td ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L760	RR0_NC(N_R) I1_UC(N_R, V_R) RNR1_UC(V_R)	 (P) (P) (F) (F) I	 P=0 P=1, retrans mit I frame P=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if the IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/6/DL76_V29				
Identifier: DL76_V29				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F 0 command with V(A) N(R) < V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_11_SETUP (N_R: V_S-1) !RR START Td ?1 # +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L760	RRO_NR(N_R) I1_UC(N_R, V_R) RNR1_UC(V_R)	 (F) (F) (F) (F) I	 F 0 p 1, retransmit 1 p 1 Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/6/DL76_V30				
Identifier: DL76_V30				
Purpose: Verify that the IUT sends an RNR/F-1 response in response to a REJ/p-1 command received in Multiple Frame Established state (7.2). The IUT is expected to remain in Multiple Frame Established state after sending RR/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !REJ(V_A: V_S) # # START T200 ?RNR +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	REJ1_NC(V_S) RNR1 UR(V_R)	 (P) (F) (F)	 p-1, N(R) set to V(S) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V31				
Identifier:DL76_V31				
Purpose:Verify that the IUT sends nothing in response to a REJ/P=0 command received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !REJ(V_A::=V_S)		REJO_NC(V_S)		P=0, N(R) set to V(S) of IUT
# # START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760		(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V32				
Identifier:DL76_V32				
Purpose:Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE !REJ(V_A::=V_S)		REJO_NR(V_S)		F=0, N(R) set to V(S) of IUT
# # START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760		(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference	Behaviour Description	Label	Constraints Reference	V	Comments
Ref: LAMP/MFO/S7b/DL76_V14 Label: IUT_01_V14	[CAN_SEND_A_I_FRAME] +DL70_PREAMBLE +DL76_IL1_SETUP (N_F := V_S - 1) !REQ START_Td ?I	L760	REJO_NC(N_R)	(P)	P=0 Retransmit I, P=don't care
	+DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMELE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_I_FRAME)]			(F) (F) I	 Test not run

Extended Comments: Q.921 Ref. 5.6.4
Executed if IUT is able to send I frame on request.

Extended Comments:Q.921 Ref. 5.6.4

Executed if IUT is able to send I frame on request.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V35				
Identifier:DL76_V35				
Purpose:Verify that the IUT retransmits an I frame in response to an REJ/F=0 response with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I Frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_1I_SETUP (N_R:=V_S-1) !REJ START Td ?I # # +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L760	REJO_NR(N_R) IP_UC(N_R,V_R, ,?)	(P) (F) (F) I	F=0 Retransmit I,P=don't care Test not run
Extended Comments:Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V36				
Identifier:DL76_V36				
Purpose:Verify that the IUT sends a RNR/F=1 in response to an RNR/P=1 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state after send RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RNR(V_A:=V_S) # # START T200 ?RNR +DL76_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RNR1_NC(V_S) RNR1_UR(V_R)	 (P) (F)	P=1, N(R) set to V(S) of IUT F=1
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/6/DL/6_V37				
Identifier: DL76_V37				
Purpose: Verify that the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RNR(V_A::V_S) # # START T200 ?TIMEOUT T200 START T3 ?RNR !RNR +DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	RNR0_NC(V_S) RNR1_UC(V_R) RNR1_NR(V_S) RNR1_UC(V_S) RNR1_NR(V_S)	 (P) (I) (I) (I) (F)	P=0, N(R) set to V(S) of IUT P=1 F=1 P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/6/DL/6_V39				
Identifier: DL76_V39				
Purpose: Verify that the IUT does not respond to an RNR/P=0 response received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RNR(V_A::V_S) # # START T200 ?TIMEOUT T200 START T3 ?RNR !RNR +DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	RNR0_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	 (P) (I) (I) (I) (F)	P=0, N(R) set to V(S) of IUT P=1 F=1 P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V41				
Identifier: DL76_V41				
Purpose: Verify the the IUT sends nothing in response to an RNR/P=0 with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_11_SETUP (N_R:=V_S-1) !RNR START T200 ?TIMEOUT T200 START TD ?RNR !RNR # * DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L760	RNR0_NC(N_R) RNR1_UC(V_R) RNR1_NR(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	 <	

Extended Comments:Q.921 Ref. 5.6.5
Tester responds t
the IUT from char

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V43				
Identifier: DL76_V43				
Purpose: Verify that the IUT does not respond to an RNR/F 0 response with $V(A) \leftarrow N(R) \vee (S)$ received in Multiple Frame Established state (7.6). the IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_11_SETUP (N_R := V_S - 1) !RNR		RNR0_NR(N_R)		$F=0, V(A) \leq N(R) < V(S)$
# START T200 ?TIMEOUT T200 START Td ?RNR !RNR	L760	RNR1_UC(V_R) RNR1_NR(V_S)	(P)	P=1 F=1
##+DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(I)	(I)
?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RNR1_UC(V_R) RNR1_NR(V_S)	(I)	P=1 F=1
#			(F)	I Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V44				
Identifier: DL76_V44				
Purpose: Verify that the IUT sends an RNR/F 1 in response to an I frame received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !1(V_A := V_S)		!1_NC(V_R, V_S)		P=1, N(R) set to V_S, N(S) set to V(R) of IUT
# # # START T200 ?RNR +DL76_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RNR1_UR(V_R)	(P)	F=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V45				
Identifier:DL76_V45				
Purpose:Verify that the IUT sends nothing in response to an I/P=0 received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE :I(V_A:=V_S)		IO_NC(V_R, V_S)		P=0, N(R) set to V(S) , N(S) set to V(R) of IUT
#				
#				
#				
#				
START T200 (T200value-DELTA)	L760			
?TIMEOUT T200				
START T200	L761	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
?RR				
#				
#				
#				
+DL85_VERIFICATION +DL_POSTAMBLE				
+DL76_UNEXPECTED GOTO L761			(I)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200			(I)	
+DL_POSTAMBLE				
?RR		RR1_UC(V_R)	(F)	Fail poll received before expiry of T200
#				
#				
#				
#				
+DL_POSTAMBLE				
+DL76_UNEXPECTED GOTO L760				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_V46				
Identifier:DL76_V46				
Purpose:Verify that the IUT sends an RNR/F=1 in response to an I/P=1 with N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Reject Recovery state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL72_PREAMBLE (N_S:=V_S+1) :I(V_A:=V_S)		IL_NC(N_S, V_S)		P=1, N(R) set to V(S) , N(S) not set to V(R) of IUT
#				
#				
#				
#				
START T200	L760	RNR1_UR(V_R)	(P)	F=1
?RNR				
+DL76_VERIFICATION +DL_POSTAMBLE				
+DL76_UNEXPECTED GOTO L760			(F)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD RFC 576/DL76_V47				
Identifier: DL76_V47				
Purpose: Verify that the IUT sends nothing in response to an L760 with N(S) < V(R) received in Multiple Frame test established state (7.6). The IUT is expected to remain in Multiple Frame Established Reject recovery state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL76_POSTAMBLE (N(S) : V(S)+1) !!(V_A : V_S)		10_NC(N_S, V_3)		Fail poll due to expiry of T200
#				
#				
#				
START T200 (T200value-DELTA)	L760			
?TIMEOUT T200				
START T200	L761	RRI_UC(V_R)	(F)	Allow poll due to expiry of T200
?RR				
#				
#				
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
?RR		RRI_UC(V_R)	(F)	Fail poll received before expiry of T200
+DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD RFC 576/DL76_V48				
Identifier: DL76_V48				
Purpose: Verify that the IUT sends a RNR/F 1 in response to an L761 frame with V(A) < V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established for Receiver Busy/Own Busy state after sending RNR/F 1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
[CAN_SEND_IFRAMES] +DL76_POSTAMBLE +DL76_SEND_SETUP (N_R := V_S + 1) !!		11_NC(V_P, N_R)		P_L, V(A) < N(R) < V(S), N(S) set to V(R) of IUT
#				
#				
#				
START T200				
?RNR	L760	RNR1_UC(V_R)	(P)	Fail
+DL76_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
[NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V49 Identifier: DL76_V49 Purpose: Verify that the IUT sends nothing in response to an I/P=0 received with V(A)<N(R)<V(S) in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_2I_SETUP (N_R:=V_S-1) ! I		I0_NC(V_R, N_R)		P=0,V(A)<N(R)<V(S), N(S) set to V(R) of IUT
#				
#				
#				
# (T200value-DELTA)				
START T200				
?TIMEOUT T200	L760			
START T200				
?RNR	L761	RNR1_UC(V_R)	(P)	P=1, Allow poll for T200 expiry
#				
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail poll received before T200 expiry
#				
#				
#				
+DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]				
#			(F)	
			I	Test not run

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_V50 Identifier: DL76_V50 Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_2I_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I		I1_NC(N_S, N_R)		P=1,V(A)<N(R)<V(S), N(S) not set to V(R) of IUT
#				
#				
#				
#				
START T200				
?RNR	L760	RNR1_UC(V_R)	(P)	F=1
+DL76_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
[NOT(CAN_SEND_IFRAMES)]				
#			(F)	
			(F)	
			I	Test not run

Extended Comment s: Q.921 Ref. 5.8.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/6/DL76_V51				
Identifier: DL76_V51				
Purpose: Verify that the IUT sends nothing in response to an I/P-0 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_21_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I		I0_NC(N_S, N_R)		P=0, V(A)<N(R)<V(S), N(S) not set to V(R) of IUT
START T200 ?TIMEOUT T200 START T200 ?RR	L760			
START T200 ?RR	L761	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
+DL85_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RR		RR1_UC(V_R)	(I)	Fail poll received before expiry of T200
+DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE			(F)	

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S/76/DL76_V52				
Identifier: DL76_V52				
Purpose: Verify that the IUT sends a RNR/F=1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_11_SETUP (N_R:=V_S-1) ! I		I1_NC(V_R, N_R)		P=1, V(A)=N(R)<V(S), N(S) set to V(R) of IUT
START T200 ?RNR +DL76_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L760	RNR1_UR(V_R)	(P)	F=1
#			(F)	
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
Reference: LAPD/MPO/S76/DL76_V55 Identifier: DL76_V55 Purpose: Verify that the IUT sends nothing in response to an I/P-0 frame with V(A) N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Own Busy state. Default:				
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_IL_SETUP (N_R::V_S-1, N_S::V_R+1) !I		10_NC(N_S, N_R)		F 0, V(A) N (R) < V(S), N (S) not set to V(R) of IUT
START T200 ?TIMEOUT T200 START T200 ?RR	L760			
# (T200value-DELTA) ?RR	L761	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
+DL85_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I) (I)	
+DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE		RR1_UC(V_R)	(F)	Fail poll received before expiry of T200
			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
[NOT(CAN_SEND_A_IFRAME)]			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S76/DL76_V56 Identifier: DL76_V56 Purpose: Verify that the IUT sends an RNR/P=1 after a T200 timeout in Multiple Frame Established state (7.6). The IUT is expected to enter Timer Recovery state (8.6) after sending RNR/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL72_PREAMBLE +DL76_IL_SETUP (N_S::V_S-1) START Td ?RNR +DL86_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L760	RNR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/S76/DL76_N01 Identifier: DL76_N01					
Purpose:Verify that the IUT sends an RNR/F=1 and then send a SABME/P=1 in response to an RR/P=1 command with N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.					
Default:	Behaviour Description	Label	Constraints Reference	V	Comments
	+DL76_PREMABLE (N_R:=V_S+(K+1)) !RR START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760 	RRL_NC(N_R) RNR1_UR(V_R) SABME1_UC	(P)	P=1 F=1 P=1
			SABME1_UC	(P)	P=1
				(F)	
				(F)	
				(F)	
				(F)	
				(F)	

Extended Comments:O.921Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/NFO-276/DL76 NO2				
Identifier: DL76_NO2				
Purpose: Verify that the IUT sends a SAME/P=1 in response to an RR/P=0 command with an N(R) error received in Multiple frame Established state (7.6). The IUT is expected to enter Awaiting establishment state after sending SAME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:-V_S*(K+1)) :RR START T200 ?SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE +TIMEOUT T200 +DL_POSTAMBLE	L760	RR0_NC(N,R) SAME1_UC	 (P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/376/BL76_N03				
Identifier: DL76_N03				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:=V_S*(K+1)) !RR		RR1_NR(N_R)		F=1
?START TT ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760	L760	SABME1_UC	(P)	P=1
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TT +DL_POSTAMBLE			(F)	
			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N04 Identifier:DL76_N04 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/F=0 with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	RR0_NR(N_R) SABME_UC	 (P) (F) (F)	 F=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N05 Identifier:DL76_N05 Purpose:Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to a REJ/P=1 command with a N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:=V_S+(K+1)) !REJ START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	REJ1_NC(N_R)		P=1
	L761	RNR1_UR(V_R) SABME_UC	 (P)	F=1 P=1
			(F)	
			(F)	
		SABME_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_R06				
Identifier: DL76_R06				
Purpose: Verify that the IUT sends a SAHME/P=1 in response to a REJ/P=0 command with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SAHME/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::=V_S*(K+1)) !REJ START T200 ?SAHME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	REJ0_NC(N_R) SAHME1_UC	(P) (P)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_N07				
Identifier: DL76_N07				
Purpose: Verify that the IUT sends a SAHME/P=1 in response to a REJ/F=1 command with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SAHME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::=V_S*(K+1)) !REJ START Td ?SAHME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	REJ1_NR(N_R) SAHME1_UC	(P) (P)	P=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N08 Identifier:DL76_N08 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:=V_S+(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	REJ0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N09 Identifier:DL76_N09 Purpose:Verify that the IUT sends an RNR/P=1 and a SABME/P=1 in response to an RNR/P=1 command with a N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R:=V_S+(K+1)) !RNR START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760 L761	RNR1_NC(N_R) RNR1_UR(V_R) SABME1_UC SABME1_UC	(P) (P) (F) (F) (P) (F) (F)	P=1 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_N10				
Identifier: DL76_N10				
Purpose: Verify that the IUT sends a SABME/P-1 in response to an RNR/P-0 command with an N(R) error received in the Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending a SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RNR0_NC(N_R) SABME1_UC	 (P)	 P=0 P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_N11				
Identifier: DL76_N11				
Purpose: Verify that the IUT sends a SABME/P-1 in response to an RNR/P-1 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::=V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RNR1_NR(N_R) SABME1_UC	 (P)	 P=1 P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S76/DL76.N12				
Identifier: DL76.N12				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::V_S+(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	RNR0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1

Extended Comments: 0.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAFD/MFO/S76/DL76_N13				
Identifier: DL76_N13				
Purpose: Verify that the IUT sends an RNR/F=1 and a SABME/P=1 in response to an I/P=1 frame with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_R::=V_S*(K+1)) ! #		I1_NC (V_R, N_R)		P=1
START T200	L760	RNR1_UR (V_R)		F=1
?RNR				
START Td	L761	SABME1_UC	(P)	P=1
?SABME				
+DL51_VERIFICATION				
+DL_POSTAMBLE			(F)	
+DL76_UNEXPECTED				
GOTO L761				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT Td			(F)	
+DL_POSTAMBLE				
?SABME		SABME1_UC	(P)	
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL76_UNEXPECTED				
GOTO L760				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_N14				
Identifier: DL76_N14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_S:=V_S+(K+1)) ! I		I0_NC(V_R, N_R)		P=0
# (V_R:=V_R+1) START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	SABME_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_N15				
Identifier: DL76_N15				
Purpose: Verify that the IUT sends an NNR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)<>V(R) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_S:=V_R+1, N_R:=V_S+(K+1)) ! I		I1_NC(N_S, N_R)		P=1
# START T200 ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	RNR1_UR(V_R)		P=1
?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L761	SABME_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N16 Identifier:DL76_N16 Purpose:Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)<V(R) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE (N_S::=V_R+1,N_R::=V_S+(K+1)) !I # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L760	IO_NC(N_S, N_R) SABME1_UC	(P) (P) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N17 Identifier:DL76_N17 Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !SABME_TL START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

W351 Case Dynamic Behaviour				
Reference: LARD/MEO/03/6/DL76_N19				
Identifier: DL76_N19				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a UA of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE :UA TL START T3 SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 POTHEWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L760	UA_TL1_NR SABME_UC	(P)	P=1 P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/LL76_N20				
Identifier:DL76_N20				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !DM_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	DM_TL1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments:O.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S76/DL76_N21				
Identifier:DL76_N21				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !FRMR_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	FRMR_TL1_NR SABME1_UC	(F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/576/DL76_N22				
Identification: DL76_N22				
Purpose: Verify that the IUP sends a SABME/P-1 in response to an RR of incorrect length received in Multiple Frame Established state (7.6). The IUP is expected to enter Awaiting Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RR_TL		RR_TL1_NC (V_S)		P-1
# START_Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Td +DL_POSTAMBLE	L760	SABME_UC	(P)	P-1
Extended Comments: Q.921 Ref. 5.7.1				
			(F)	(F)
			(F)	(F)

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/576/DL76_N23				
Identification: DL76_N23				
Purpose: Verify that the IUP sends a SABME/P-1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.6). The IUP is expected to enter Awaiting Establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RNR_TL		RNR_TL1_NC (V_S)		P-1
# START_Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Td +DL_POSTAMBLE	L760	SABME_UC	(P)	P-1
Extended Comments: Q.921 Ref. 5.7.1				
			(F)	(F)
			(F)	(F)

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFC/S76/DL76_N24				
Identifier: DL76_N24				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !REJ_TL		REJ_TL_NC (V_S)		P=1
#				
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	SABME_UC	(P)	P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFC/S76/DL76_N25				
Identifier: DL76_N25				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.6). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !I_TL		I_TL_NC (V_R, V_S)		
#				
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	SABME_UC	(P)	P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.7.1

1 APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S76/DL76_N26 Identifies: DL76_N26				
Purpose: Verify that the IUP sends a SAMME/P-1 in response to an undefined command received in Multiple Frame Established state (7.6). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !UNDEF START Td ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	UNDEF_NC SAMME1_UC	(P)	P-1
Extended Comments: Q.921 Ref. 5.7.1				

1 APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MPO/S76/DL76_N27 Identifies: DL76_N27				
Purpose: Verify that the IUP sends a SAMME/P-1 in response to a frame with an invalid 1 field received in Multiple Frame Established state (7.6). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !SAMME_TL START Td ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L760	SAMME_TL_NC SAMME1_UC	(P)	P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I01				
Identifier: DL76_I01				
Purpose: Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
# # +DL76_PREAMBLE !RR(V_A::=V_S) START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	RR1_NR(V_S)	(P)	F=1, N(R) set to V(S) of IUT
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I02				
Identifier: DL76_I02				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL76_2I_SETUP (N_R::=V_S-1) !RR(V_A::=N_R) START Td ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L760	RR1_NR(N_R) IL_UC(N_R, V_R) RNR1_UC(V_R)	 (P) (P) (F) (F) I	 F=1 P=1, retransmit I P=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDG or change state when a MDL_ERR_INDICATION(A) is generated.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I03 Identifier: DL76_I03 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F=1 response with V(A)=N(R)<V(S) received in Multiple frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL76_I1_SETUP (N_R:=V_S-1) !RR START Td ?I +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L760	RR1_NR(N_R) I1_UC(N_R, V_R) RNR1_UC(V_R) P=1, retransmit I P=1	(P) (P) (F) (F) I	F=1 P=1, retransmit I P=1 Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I04 Identifier: DL76_I04 Purpose: Verify that the IUT does not respond to a REJ/F=1 response received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !REJ(V_A:=V_S) # # START Td ?TIMEOUT Td +DL72_VERIFICATION +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE	L760	REJ1_NR(V_S) (P) (F)	(P) (F)	F=1, N(R) set to v(s) of IUT (P) (F)
Extended Comments: Q.921 Ref. 5.8.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I05				
Identifier: DL76_I05				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ(F=1) response with V(A) < N(R) < V(S) received in Multiple Frame Established state (7.6). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL76_1I_SETUP (N_R := V_S - 1) !REJ START Td ?I	L760	KEJ1_NR(N_R)	(P)	F=1
#				Retransmit I, P=don't care
#				
+DL72_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
#			(F)	I
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S76/DL76_I06				
Identifier: DL76_I06				
Purpose: Verify that the IUT sends nothing in response to an RNR(F=1) response received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL76_PREAMBLE !RNR(V_A := V_S)		RNR1_NR(V_S)		F=1, N(R) set to V(S) of IUT
#				
#	L760			
START T200 ?TIMEOUT T200 START Td ?RNR !RNR +DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_S) RNR1_NR(V_S)	(P)	P=1 F=1
			(I)	
			(I)	
		RNR1_UC(V_S) RNR1_NR(V_S)	(I)	P=1 F=1
			(F)	
Extended Comments: Q.921 Ref. 5.8.7 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

Test Case: Dynamic Behaviour				
Reference: LAPD, REQ. 7.7.7/PL7.7_V01 From: 1000, 1001, 1002				
Purpose: Verify that the IUT sends nothing in response to an RNR(P-1) response with V(A), N(R), V(R) received in Multiple Frame Established state (7.6). The IUT is expected to enter Multiple Frame Established state busy state.				
Default:				
Behaviour Description	Label	Comment Reference	V	Comments
[CAN_SEND_A_FRAME] +DL76_PREAMBLE +DL76_LL_SETUP (N R:: V_S 1) !RNR		RNR1_NR(N R)		
START T200 ?TIMEOUT T200 START T3 ?RNR !RNR	L760	RNR1_UC(V_S) RNR1_NR(V_S)	(F) (F)	
##DL76_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_FRAME)]			(F) (F) (F) (F)	
Extended Comments: Q.921 Ref. 5.8.7 Tester responds to an RNR(P-1) from the IUT to keep the IUT from changing states.				

Test Case: Dynamic Behaviour				
Reference: LAPD, REQ. 7.7.7/PL7.7_V01 From: 1000, 1001, 1002				
Purpose: Verify that the IUT can send a SABME/P-1 in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting establishment state after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Comment Reference	V	Comments
[CAN_SEND_SABME] +DL77_PREAMBLE +IUT_SABME START T3 !SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RNR !RNR GOTO L770 +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3pr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)]	L770	SABME1_UC RNR1_UC(V_R) RNR1_NR(V_S)	(P) (F) (F) I	REQ. SABME P-1 P-1 F-1 Test not run
Extended Comments: Q.921 Ref. 5.5.1.2 Executed if IUT is able to send SABME/P-1 on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V03				
Identifier: DL77_V03				
Purpose: Verify that the IUT does not send an I frame when $V(S) < V(A) + k$ (ie. window is open) in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after queuing the I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL77_PREAMBLE <IUT!I> START Topr ?TIMEOUT Topr !RR	L770	RR0_NR(V_S)		P=0, clear peer busy
START Td ?I (V_S := V_S + 1) +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L771	I0_UC(V_S, V_R)	(P)	P=0
?RR !RNR GOTO L770 +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RR1_UC(V_R) RR1_NR(V_S)	(F) (F)	P=1 F=1
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.1 Executed if IUT is able to send I frame on request.				

Continued on next page

Executed if test is able to send a frame in request

A.1 Case Dynamic Behaviour				
Reference: LAMP-MQ-277, DL77-V03				
Identifier: dl77-v03				
Purpose: Verify that the IUT sends a UA/P-1 in response to a SARME-P-1 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending the UA/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !SARME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	SARME1_NC UA1_OR	(F) (F) (F) (F)	F-1 F-1
Extended Comments: Q.921 Ref. 5.5.2				

Identifier: dl77-v10

Purpose: Verify that the IUT sends a UA/P-0 in response to a SARME/P-0 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending UA/P-0.

Default:

Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !SARME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	SARME0_NC UA0_OR	(F) (F) (F) (F)	F-0 F-0
Extended Comments: Q.921 Ref. 5.5.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V12				
Identifier: DL77_V12				
Purpose: Verify that the IUT sends a UA/P=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.7). The IUT is expected to enter TEI Assigned state after sending UA/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	DISC1_NC UA1_UR	(P) (F) (F) (F)	P=1 F=1
Extended Comments: O.921 Ref. 5.5.3.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V13				
Identifier: DL77_V13				
Purpose: Verify that the IUT sends a UA/P=0 in response to a DISC/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to enter TEI Assigned state after sending UA/P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	DISC0_NC UA0_UR	(F) (F) (F)	P=0 F=0
Extended Comments: O.921 Ref. 5.5.3.2				

3.1. Case Dynamic behavior				
Reference: <u>ADAMS003D707-V14</u> Item #1: <u>1.7.7-V14</u> Purpose: Verify that the HUT sends a SALM_F1 in response to a BR_F10 In Multiple Frame Established state (7.7). The HUT is expected to enter Awaiting Establishment state after sending the SALM_F1				
De-fault:				
Behavior Description	Label	Global Event In-Process	V	Comment
*DL77_PREAMBLE IDM START_T200 NSAMEF *DL51_VERTIFICATION *DL_F05FAMBLE *DL77_UNINITIALIZED GO20_ L770 OTHERWISE *DL_F05FAMBLE TTINENT_T200 *DL_F05FAMBLE	L770	TWO_NK SAMEF1_DC	(F) (F) (F) (F)	P=0 P=1

Extended Comments: Q.9.2 Ref.: 5.7.1

Test Case: Dynamic Behaviour				
Behaviour Description	Label	Constraint Reference	V	Comments
<p>CALL PRIMITIVE</p> <p>TIME</p> <p>START T200 (T200 VALUE DELTA)</p> <p>TIMEOUT T200 : START T200</p> <p>200R</p> <p>+DL7_VERTIFICATION</p> <p>+DL_POSTABLE</p> <p>TIMEOUT T200</p> <p>+DL_POSTABLE</p> <p>200R</p> <p>+DL_POSTABLE</p> <p>+DL7_UNEXPECTED</p> <p>GOTO L770</p> <p>200R</p> <p>+DL_POSTABLE</p>	L770	<p>DL_RR</p> <p>RNR UC (V R)</p>	(F)	<p>P-1</p> <p>P-1, IUT's T200 expire d</p>

Extended Comment: Q.921 Ref. 5.8.7

Allow for RNR poll due to expiry of IUT's T200.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_V17				
Identifier:DL77_V17				
Purpose:Verify that the IUT sends a SABME/P=1 after receiving a FRMR rejecting an RR in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	FRMR_RR1_NR SABME1_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_V20				
Identifier:DL77_V20				
Purpose:Verify that the IUT sends an RNR/F=1 in response to an RR/P=1 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !RR(V_A::=V_S) # # START T200 ?RNR +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	RR1_NC(V_S) RNR1_UR(V_R)	(P)	P=1, N(R) set to V(S) of IUT P=1
Extended Comments:Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD RRQ 577 DL77 V21 Identified: DL77 V21 Purpose: Verify that the IUP does not respond to an RRQ/F0 command received in Multiple Frame Established state (7.7). The IUP is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE RRQ(V_A::V_S) START IN ?TIMEOUT IN +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770	RRQ_N(RV_S)	(F)	F=0, N(R) Set to V(S) of IUP
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD RRQ 577 DL77 V23 Identified: DL77 V23 Purpose: Verify that the IUP does not respond to an RRQ/F0 response received in Multiple Frame Established state (7.7). The IUP is expected to remain in Multiple Frame Established state after sending no response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE RRQ(V_A::V_S) START IN ?TIMEOUT IN +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770	RRQ_N(RV_S)	(F)	F=0, N(R) Set to V(S) of IUP
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V24				
Identifier: DL77_V24				
Purpose: Verify that the IUT sends an RNR/P=1 in response to an RNR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_21_SETUP (N_R:=V_S-1) RR(V_A:=N_R) START T200 ?RNR +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L770	PFL_NC(N_P) RNRL_UC(V_P)	(P) (P)	(P) (P) (F) (F) Test not run
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send SAME on request.				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V25				
Identifier: DL77_V25				
Purpose: Verify that the IUT retransmits an I frame in response to an RNR/P=1 command with V(A)<N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_21_SETUP (N_R:=V_S-1) RR(V_A:=N_R) START T2 ?I +DL81_VERIFICATION +DL_POSTAMBLE ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T2 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L770	RK0_NC(N_R) IL_UC(N_R, V_R) RNRL_UC(V_R)	(P) (P) (P)	P=0 P=1, retrans mit I frame P=1
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MPC/577/01.7 V.2.6 Identifier: DL7_V2.6 Purpose: Verify that the IUT retransmits an I frame in response to an RR/F-0 command with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_21_SETUP (N_R::V_S 1) !RR(V_A::N_R) START TD ?1 +DL83_VERIFICATION +DL_POSTAMBLE ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L770	RRO_NR(N_R) LL_UC(N_R, V_R) RNR1_UC(V_R)	F-0 (P) (P) (F) (F)	P-1, retransmit 1 P-1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MPC/577/01.7 V.2.7 Identifier: DL7_V2.7 Purpose: Verify that the IUT sends an RNR/F-1 in response to an RR/F-1 command with V(A)-N(R)-V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending the I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_11_SETUP (N_R::V_S 1) !RR START T200 ?RNR +DL73_VERIFICATION +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L770	RNR1_NC(N_R) RNR1_UR(V_R)	P-1 (P) (F) (F)	P-1 F-1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.5 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V29 Identifier: DL77_V29 Purpose: Verify that the IUT retransmits an I frame in response to an RRF=F=0 command with V(A)=N(R)<V(S) received in Multiple Frame Established state (7,7). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_I1_SETUP (N_R:=V_S-1) :RR START Td ?I	L770	RR0_NR(N_R)		F=0
+DL83_VERIFICATION +DL_POSTAMBLE ?RNR		IL_UC(N_R, V_R)	(P)	P=1, retransmit I
+DL83_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		RNR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
#				

Extended Comments: Q.921 Ref. 5.6.5
 Executed if IUT is able to send I frame on request.

APD Case Dynamic Information				
Reference: LAPD-000-77700000 V0.0				
Identified: 15/7 V0				
Purpose: Verify that the IUT sends an RRR/V0 response in response to a DL77-V0 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RRR/V0.				
Definition:				
Behaviour Description	Label	Constraint Reference	V	Comments
*DL77_PREAMBLE *RRR(V_A::V_S)		RRR_NC(V_S)		P-0, N(W) Set to V(S) of IUT
*START T200 *RRR *DL77_VERIFICATION *DL_POSTAMBLE *DL77_UNEXPECTED *GOTO L770 *OTHERWISE *DL_POSTAMBLE *TIMEOUT T200 *DL_POSTAMBLE	L770	RRR_UK(V_R)	(F)	(F)
Extended Comments: Q.921 Ref. 5.6.4				

APD Case Dynamic Information				
Reference: LAPD-000-77700000 V0.0				
Identified: 15/7 V0				
Purpose: Verify that the IUT sends nothing in response to a DL77-V0 command received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.				
Definition:				
Behaviour Description	Label	Constraint Reference	V	Comments
*DL77_PREAMBLE *RRR(V_A::V_S)		RRR_NC(V_S)		P-0, N(W) Set to V(S) of IUT
*START T1 *TIMEOUT T1 *DL77_VERIFICATION *DL_POSTAMBLE *DL77_UNEXPECTED *GOTO L770 *OTHERWISE *DL_POSTAMBLE	L770		(F)	(F)
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_V32				
Identifier:DL77_V32				
Purpose:Verify that the IUT does not respond to a REJ/F=0 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !REJ(V_A:=V_S)		REJ0_NR(V_S)		F=0, N(R) set to V(S) of IUT
START Td ?TIMEOUT Td +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770		(F)	
Extended Comments:Q.921 Ref. 5.8.7				

4 Abstract Test Suite - Part I

1397

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_V33				
Identifier:DL77_V33				
Purpose:Verify that the IUT sends an RNR/F=1 and retransmits an I frame in response to an REJ/P=1 command with V(A)<=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_I1_SETUP (N_R:=V_S-1) !REJ START T200 ?RNR START Td ?I	L770 L771	REJ1_NC(N_R) RNR1_UR(V_R) IP_UC(N_R,V_R,??)		P=1 F=1 Retransmit I, P=don't care
+DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F) (F) (F) (F) (F)	
Extended Comments:Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				
			I	Test not run

4 Abstract Test Suite - Part I

1398

Test Case Dynamic Behaviour				
Reference: LAPD/MIO/577/DL77_V34				
Identifier: DL77_V34				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ/P-0 Command with $V(A) < N(R) - V(S)$ received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_I1_SETUP (N_R: V_S-1) !REJ START TD ?I	L770	RELJO_NC(N_R)	(P)	P-0 Retransmit I, P don't care
#				
#				
+DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.4 Executed if IUT is able to send I frame on request.				

Test Case Dynamic Behaviour				
Reference: LAPD/MIO/577/DL77_V35				
Identifier: DL77_V35				
Purpose: Verify that the IUT retransmits an I frame in response to an REJ/P-0 response with $V(A) < N(R) - V(S)$ received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_I1_SETUP (N_R: V_S-1) !REJ START TD ?I	L770	RELJO_NR(N_R)	(P)	F-0 Retransmit I, P don't care
#				
#				
+DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))			(F) (F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V36				
Identifier: DL77_V36				
Purpose: Verify that the IUT sends a RNR/F-1 in response to an RNR/P=1 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state after send RNR/F-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !RNR(V_A:=V_S) # # START T200 ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	RNR1_NC(V_S) RNR1_UR(V_R)	 (P)	P=1, N(R) set to V(S) of IUT F=1
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V37				
Identifier: DL77_V37				
Purpose: Verify the the IUT sends nothing in response to an RNR/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !RNR(V_A:=V_S) # # START T200 ?TIMEOUT T200 START Td ?RNR !RNR +DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770	RNR0_NC(V_S) RNR1_UC(V_R) RNR1_NR(V_S)	 (P) (I) (I) (I)	P=0, N(R) set to V(S) of IUT P=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.				

LAPB Compliance Testing

Behaviour Description	Label	Constraint Reference	V	Comments
*DL77_PREMABLE ! RNR(V_A := V_S)		RNR0_NR(V_S)		P=0, N(R) set to V(S) of IUT
START T200 ?TIMEOUT T200 START T3 ?RNR ! RNR +DL77_VERIFICATION +DL_POSTAMBLE	L770	RNR1_UC(V_R) RNR1_NR(V_S)	(P) 	P=1 F=1
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE			(I) 	
?RNR ! RNR +DL_POSTAMBLE		RNR1_UC(V_R) RNR1_NR(V_S)	(I) 	P=1 F=1
+DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE			(F)	

Extended Comments: Q.921 Ref. 5.6.5
Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.

1991) (Confidential) (LAW 1991)

Reference	Label	Comments
#	(CAN_SEND_A_IFRAME) +DL70_PREAMBLE +DL77_11_SETUP (N_R; V_S 1) !RRR START T200 ?RRR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	P-1, V(A) < N (R) < V(S)
#	L770	F-1
#		I

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/S77/DL77_V41					
Identifier: DL77_V41					
Purpose: Verify the IUT sends nothing in response to an RNR/P=0 with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
<pre>[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_1I_SETUP (N_R:=V_S-1) !RNR START T200 ?TIMEOUT T200 START Td ?RNR !RNR #+DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]</pre>	L770	RNR0_NC(N_R)		P=0, V(A) < N(R) < V(S)	
		RNR1_UC(V_R) RNR1_NR(V_S)	(P)	P=1 F=1	
		RNR1_UC(V_R) RNR1_NR(V_S)	(I)	P=1 F=1	
			(F)		Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.					

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/S77/DL77_V43					
Identifier: DL77_V43					
Purpose: Verify that the IUT does not respond to an RNR/P=0 response with $V(A) < N(R) < V(S)$ received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Busy state.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
<pre>[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_1I_SETUP (N_R:=V_S-1) !RNR START T200 ?TIMEOUT T200 START Td ?RNR !RNR #+DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]</pre>	L770	RNR0_NR(N_R)		F=0, V(A) < N(R) < V(S)	
		RNR1_UC(V_R) RNR1_NR(V_S)	(P)	P=1 F=1	
			(I)		
			(I)		
		RNR1_UC(V_R) RNR1_NR(V_S)	(I)	P=1 F=1	
			(F)		Test not run
Extended Comments: Q.921 Ref. 5.6.5 Tester responds to an RNR(P=1) from the IUT to keep the IUT from changing states.					

Test Case Dynamic Behaviour				
Reference: LAPD/MQ/577/01.77_V44 Identified by: 01.77_V44 Purpose: Verify that the IUT sends an RNR/F=1 in response to an L frame received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
*DL77_POSTAMBLE !!(V_A:=V_S)		!!_NC(V_R, V_S)		P=1, N(k) Set to V(S) N(S) set to V(R) of IUT
START T200 ?NR	L770	RNR1_UC(V_R)	(F)	F=1
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.6.2.1

Test Case Dynamic Behaviour				
Reference: LAPD/MQ/577/01.77_V45 Identified by: 01.77_V45 Purpose: Verify that the IUT sends nothing in response to an L/P=0 received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
*DL77_POSTAMBLE !!(V_A:=V_S)		!!_NC(V_R, V_S)		P=0, N(R) Set to V(S) N(S) set to V(R) of IUT
START T200 (T200 value Delta) ?TIMEOUT T200 START T200 ?NR	L770			
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?NR	L771	RRL_UC(V_R)	(P)	Allow poll due to expiry of T200
			(I)	
			(I)	
		RRL_UC(V_R)	(F)	Fail poll received before expiry of T200
+DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE			(F)	

Extended Comments: Q.921 Ref. 5.6.2.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V47				
Identifier: DL77_V47				
Purpose: Verify that the IUT sends an nothing in response to an I/P=0 with N(S)<V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_S:=V_S+1) ! I (V_A:=V_S)		I0_NC(N_S, V_S)		P=0, N(R) set to V(S) , N(S) not set to V(R) of IUT
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L770 L771	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I) (I)	
?RR		RR1_UC(V_R)	(F)	Fail poll received before expiry of T200
+DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE			(F)	

Test Case Dynamic Behaviour				
Reference: LAPD Ref. 5.7.7.11.2_V48				
Identified: DL77_V48				
Purpose: Verify that the IUT sends a RNR.F.1 in response to an L1.L1 frame with V(A).N(R).V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state after sending RNR.F.1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_21_SETUP (N.R.: V.S.1) !!		I1_NC(V_R, N_R)		P=1, V(A).N(R).V(S), N(S) set to V(R) of IUT
START T200 ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L770	RNR1_UC(V_R)	(F)	F.1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD Ref. 5.7.7.11.2_V49				
Identified: DL77_V49				
Purpose: Verify that the IUT sends nothing in response to an I/P.0 received with V(A).N(R).V(S) in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_21_SETUP (N.R.: V.S.1) !!		I0_NC(V_R, N_R)		P=0, V(A).N(R).V(S), N(S) set to V(R) of IUT
START T200 ?TIMEOUT T200 START T200 ?RNR	L770 L771	RNR1_UC(V_R)	(P)	P=1, Allow poll for T200 expiry
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
			(I)	
			(F)	Fail poll received before T200 expiry
			(F)	
[NOT(CAN_SEND_IFRAMES)]			I	Test not run

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Behaviour Description	Label	Constraints Reference	V	Comments
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V50				
Identifier: DL77_V50				
Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_2I_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I		IL_NC(N_S, N_R)		P=1, V(A)<N (R)<V(S), N (S) not set to V(R) of IUT
START T200 ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L770	RNR1_UR(V_R)	(P)	F=1
#			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V51				
Identifier: DL77_V51				
Purpose: Verify that the IUT sends nothing in response to an I/P=0 frame with V(A)<N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL77_2I_SETUP (N_R:=V_S-1, N_S:=V_R+1) ! I		IO_NC(N_S, N_R)		P=0, V(A)<N (R)<V(S), N (S) not set to V(R) of IUT
START T200 ?TIMEOUT T200 START T200 ?RR	L770			
#	L771	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
#			(I)	
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
#			(F)	Fail poll received before expiry of T200
+DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			1	Test not run

Extended Comments: Q.921 Ref. 5.8.1

Extended Comment 3: Q.921 Ref. 5.6.2.1

Test Case Dynamic Behaviour				
Reference: IAFD/MFO/S77/DL77_V52				
Identifier: DL77_V52				
Purpose: Verify that the IUT sends a RNR/F 1 in response to an I frame with V(A)=N(R)<V(S) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject recovery & Own Busy state after sending RNR/F 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL77_11_SETUP (N_R:=V_S-1) !1		11_NC(V_R, N_R)		P_1.V(A)=N(R)<V(S), N(S) set to V(R) of IUT
START T200 ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L770	RNR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V53 Identifier: DL77_V53 Purpose: Verify that the IUT sends nothing in response to an I/P=0 received with V(A)=N(R)<V(S) in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_1I_SETUP (N_R::=V_S-1) !I # # # # (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR # # # #	L770 L771	I0_NC(V_R, N_R)	(P)	P=0,V(A)=N (R)<V(S), N (S) set to V(R) of IUT
+DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR # # # #		RR1_UC(V_R)	(I) (I) (F)	Allow poll due to expiry of T200
+DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?RR # # # #		RR1_UC(V_R)	(F)	Fail poll received before expiry of T200

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_V54 Identifier: DL77_V54 Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 frame with V(A)=N(R)<V(S) and N(S)<V(R) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Own Busy state after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL77_1I_SETUP (N_R::=V_S-1,N_S::=V_R+1) !I # # # # #		I1_NC(N_S, N_R)		P=1,V(A)=N (R)<V(S), N (S) not set to V(R) of IUT
START T200 ?RNR +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L770	RNR1_UR(V_R)	(P) (F) (F) I	F=1 Test not run

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[Extended Comments: Q.9.11 Ref. 5.8.1]

Test Case Dynamic Behaviour				
<p>Reference: L4P1/RI/2/7/01.11 V.5.5</p> <p>Identifier: DL77 V5.5</p> <p>Purpose: Verify that the IUP sends nothing in response to an I/P-0 Frame with V(A) N(R) < V(S) and N(S) < V(R) received in Multiple Frame established state (7.7). The IUP is expected to remain in Multiple Frame Established Peer Receiver Busy/Reject Recovery & Onn Busy state.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_FRAME] +DL77_POSTAMBLE +DL77_11_SETUP (N_R: V_S_1, N_S: V_R+1) !! # # # # # (T200value-DELTA) START T200 ?TIMEOUT T200 START T200 ?RR +DL87_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE </pre>	<p>L770</p> <p>L771</p>	<p>IO_NC(N_S, N_R)</p> <p>RR1_UC(V_R)</p> <p>RR1_UC(V_R)</p>	<p>(F)</p> <p>(F)</p> <p>(F)</p> <p>(F)</p>	<p>P=0, V(A) N (R) < V(S), N (S) not set to V(R) of IUP</p> <p>Allow poll due to expiry of T200</p> <p>Fail poll received before expiry of T200</p>

[8]

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[1]

Behaviour Description	Label	Constraints Reference	V	Comments
# (NOT (CAN_SEND_A_IFRAME)) +DL_POSTTABLE			I	Test not run

Extended Comments:0.921 Ref. 5.8.1

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_V58				
Identifier:DL77_V58				
Purpose:Verify that the IUT sends an RR/F=0 when it clears OWN_BUSY in Multiple Frame Established state (7.7). The IUT is expected to enter Multiple Frame Established state after sending RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_CLR_OWN_BUSY] +DL77_PREAMBLE <IUT!CLEAR_OWN_BUSY> START Topi ?RR +DL75_VERIFICATION +DL_POSTAMBLE ?RR +DL70_VERIFICATION +DL_POSTAMBLE ?RR +DL70_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topi +DL_POSTAMBLE (NOT(CAN_CLR_OWN_BUSY))	L770	RR0_UR(V_R) RR1_UC(V_R) RR0_UC(V_R)	(P) (P) (P)	F=0 P=1 P=0
#			I	Test not run

Extended Comments:Q.921 Ref. 5.6.6
Executed if IUT is able to clear own busy on request.

LAPD Conformance Testing

[illegible]

API Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAFD-MTCO-117077 R02				
Identified: DL77 R02				
Purpose: Verify that the TUF sends a SAMEP/P 1 in response to an RR/P 0 command with an R(R) error received in Multiple frame established state (7.7). The TUF is expected to enter Awaiting establishment state after sending SAMEP/P 1.				
Default:	Behaviour Description	Label	Constraints Reference	V Comments
DL77_PREMABLE (N_R:=V_3(F+1)) RR			RR0_NC(N_R)	P 0
*START T200 ?SAMEP: +DL51_VERIFICATION +DL_POSTMABLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTMABLE ?TIMEOUT T200 +DL_POSTMABLE		L770	SAMEP_UC	(P) (F) (F)

Extended Comments: Q.92 Ref. 5.8.2

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N03				
Identifier:DL77_N03				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 response with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_R::=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	RR1_NR(N_R) SABME1_UC	 (P)	 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

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Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N04				
Identifier:DL77_N04				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/F=0 with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_R::=V_S+(K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	RR0_NR(N_R) SABME1_UC	 (P)	 F=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

1 Apple Conference Testing

Post-Call Dynamic Behaviour				
Behaviour Description	Label	Constant Reference	V	Comments
DL77_FRAMEABLE (N R) : V S (K+1) !REL START T200 !RRR START T1 ?SARME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?SARME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770 L771	REL1_NC(N R) RRR1_OR(V R) SARME1_UC SARME1_UC	(F) (F) (F) (F)	P#1 P#1 P#1 P#1

Identifer: DL77_RNC
 Purpose: Verify that the IOT sends an RRR F+1 and a SARME F+1 in response to a REL F+1 command with a N(R) error received in Multiple Frame Establishment state (7.7). The IOT is expected to enter Awaiting Establishment state after sending SARME F+1.
 default:

Extended Comments: 0.921 Ref. 5.8.2

LAB Compliance Testing:

Test Case: Dynamic behaviour				
Reference: LAMP-MC/07/11/PL77 R06				
Test Case: PL77 R06				
Purpose: Verify that the IUT sends a SAMME/P-1 in response to a REJ/P-0 Command with an NR() error received in Multiple Frame Establishment state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1.				
Test Case:	Behaviour Description	Label	Constraints Reference	V
+DL77_FRAMEABLE (NR:= V_N(K+1)) !REJ START T200 ?CAUSE +DL51_VERIFICATION +DL_POSTABLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTABLE ?TIMEOUT T200 +DL_POSTABLE		L770	REJ_NC(NR) SAMME_UC	P-0 P-1 (P) (F) (F)

Extended Comments: Q.92 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAEP/NFO/S77/R.77_N07				
Identifier: DL77_N07				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 Response with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_R:=V_S*(K+1)) !REJ START Td		REJ1_NR(N,R)		F=1
?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	SABME1_UC	(P)	P=1
				(F)
				(F)

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAFD/MFO/S77/DL77_N08				
Identifier:DL77_N08				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REU/F=0 Response with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREMABLE (N_R::=V_S*(K+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	REJO_NR(N_R) SABME1_UC	 (P)	 F=0 P=1
			(F)	
			(F)	

[illegible]

Behavior Description	Label	Comment Reference	V	Comment
DL77_PREAMBLE (N RE: V IN (K+1)) INRE START T200 ?PAMBE *DL77 VERIFICATION *DL POSTTABLE *DL77_UNEXPECTED GOTO 1770 ?OTHERWISE *DL_POSTTABLE ?TIMEOUT T200 *DL_POSTTABLE	1770	INRO NC(N R) SABMEZ_UC	(P) (P)	P=0 P=1 (F) (F)

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S77/DL77_N12 Identifier: DL77_N12 Purpose: Verify that the IUT sends a SABME/P=1 in response to an RNR/F=0 Response with an N(R) error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_R::=V_S*(K+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770	RNR0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1

extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/STT/DL77_N13 Identifier: DL77_N13 Purpose: Verify that the IUT sends an RNR/P-1 and a SAME/P-1 in response to an I/P-1 error received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SAME/P-1. Default:				
Behaviour Description	Label	Constraint & Reference	V	Comments
+DL77_PREAMBLE (N_R := V_S*(K+1)) !! # START T200 ?RNR START Td ?SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L771 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?SAME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L770 L771	IL_NC(V_R, N_R) RNR1_UC(V_R) SAME1_UC SAME1_UC	P-1 F-1 P-1 (P) (F) (F) (P) (F) (F)	P-1 P-1 P-1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N15				
Identifier:DL77_N15				
Purpose:Verify that the IUT sends an RNR/F=1 and sends a SABME/P=1 in response to an I/P=1 with an N(R) error and N(S)<>V(R) received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_S:=V_R+1,N_R:=V_S+(K+1)) ! I		I1_NC(N_S, N_R)		P=1
#				
START T200				
?RNR	L770	RNR1_UR(V_R)		F=1
START Td				
?SABME	L771	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE				
+DL77_UNEXPECTED GOTO L771				
?OTHERWISE				(F)
+DL_POSTAMBLE				
?TIMEOUT Td				(F)
+DL_POSTAMBLE				
?SABME				
+DL51_VERIFICATION +DL_POSTAMBLE		SABME1_UC	(P)	P=1
+DL77_UNEXPECTED GOTO L770				
?OTHERWISE				(F)
+DL_POSTAMBLE				
?TIMEOUT T200 +DL_POSTAMBLE				(F)
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N16				
Identifier:DL77_N16				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I/P=0 with an N(R) error and N(S)=V(R) received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE (N_S:=V_R+1,N_R:=V_S+(K+1)) ! I		I0_NC(N_S, N_R)		P=0
#				
START T200				
?SABME	L770	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE				
+DL77_UNEXPECTED GOTO L770				
?OTHERWISE				(F)
+DL_POSTAMBLE				
?TIMEOUT T200 +DL_POSTAMBLE				(F)
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-RFO-577/DL77_N17 Identifier: DL77_N17 Purpose: Verify that the IOT sends a SAMME/P-1 in response to a SAMME of incorrect length received in Multiple Frame Established state (7.7). The IOT is expected to enter AwaitInit Establishment state after sending SAMME/P-1 Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL77_PREAMBLE !SAMME_TL START 'M ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT 'M +DL_POSTAMBLE	L770	SAMME_TL_NC SAMME_UC	 (P)	 (F) (F)

Extended Comments: Q.921 Ref. 5.7.1

1. API Conformance Testing:

Test Case Dynamic Behaviour			
Reference: LAPD/MVO/577/DL77_N18 Identifier: DL77_N18 Purpose: Verify that the IUP sends a SAMME/P-1 in response to a DISC of incorrect length received in Multiple Frame Established state (7.7). The IUP is expected to enter Awaiting Establishment state after sending SAMME/P-1. Default:			
Behaviour Description	Label	Constraints Reference	V
*DL77_PREAMBLE *DISC TL START TM *SAMME *DL51_VERIFICATION *DL_POSTAMBLE *DL77_UNEXPECTED GOTO L770 ?OTHERWISE *DL_POSTAMBLE ?TIMEOUT TD *DL_POSTAMBLE	L770	DISC_TL_NC SAMME_UC	P=1 P=1 (F) (F)

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N19				
Identifier:DL77_N19				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA of incorrect length received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !UA_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	UA_TL1_NR SABME1_UC	(P) (P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N20				
Identifier:DL77_N20				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM of incorrect length received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !DM_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	DM_TL1_NR SABME1_UC	(P) (P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

1. API Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAFD-MTC-3.11/01/1 N-1	Ident (iter: DL77_N21	Purpose: Verify that the IUT sends a SAMME/P-1 in response to a FRMR of incorrect length received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P-1.	Default:	
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE +FRMR_TL START_TM +SAMME_P-1 +DL77_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TM +DL_POSTAMBLE	L770	FRMR_TL1_NR SAMME_UC	(F) (F) (F)	(F-1) (F-1)

Extended Comments: Q.92 Ref. 5.7.1

IAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: AFD/MFO/ST77/DL77_N.2				
Identifier: DL77_N.2				
Purpose: Verify that the UUT sends a SAMME/P.1 in response to an RR of incorrect length received in Multiple Frame Test established state (7.7). The UUT is expected to enter Awaiting Establishment state after sending SAMME/P.1.				
Default:				
	Behaviour Description	Label	Constraints Reference	V
#	4DL77_PREAMBLE 1RR_TL 2START_TD 2SAMME 4DL51_VERIFICATION 4DL_POSTAMBLE 4DL77_UNEXPECTED GOTO L770 2OTHERWISE 4DL_POSTAMBLE 2TIMEOUT_TD 4DL_POSTAMBLE	L770	RR_TL_NC (V_5) SAMME_UC	P.1 P.1 (P) (F) (F)

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N23 Identifier:DL77_N23 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RNR of incorrect length received in Multiple Frame Established state (7.7). the IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !RNR_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	RNR_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1 P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N24 Identifier:DL77_N24 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ of incorrect length received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !REJ_TL # START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	REJ_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1 P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/ST7/DL77_N26 Identifier: DL77_N26 Purpose: Verify that the IUT sends a SAMME/P=1 in response to an I frame with excess length (N201 error) received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P=1. Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL77_PREAMBLE ?I_TL START_TD ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TD +DL_POSTAMBLE	L770	L_TL1_NC (V.F. V.S) SAMME1_UC	(F) (F) (F)	 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/ST7/DL77_N26 Identifier: DL77_N26 Purpose: Verify that the IUT sends a SAMME/P=1 in response to an undefined command received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SAMME/P=1. Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL77_PREAMBLE !UNDEF START_TD ?SAMME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_TD +DL_POSTAMBLE	L770	UNDEF1_NC SAMME1_UC	 (P) (F) (F)	 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_N27				
Identifier:DL77_N27				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a frame with an invalid I field received in Multiple Frame Established state (7.7). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !SABME_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L770	SABME_TL1_NC SABME1_UC	(P) (P)	P=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S77/DL77_I01				
Identifier:DL77_I01				
Purpose:Verify that the IUT does not respond to an RR/F=1 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending no response.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !RR(V_A::=V_S)		RR1_NR(V_S)		F=1, N(R) set to V(S) of IUT
#				
#				
START Td ?TIMEOUT Td +DL73_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770		(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MQV/377/DL77_103 Identifier: DL77_103				
Purpose: Verify that the IUT retransmits an I frame in response to an RR/F-1 response with V(A)=N(R)+V(3) received in Multiple Frame Established state (I/P). The IUT is expected to remain in Multiple Frame Established state after sending I frame. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAME] +DL70_PREAMBLE +DL77_I1_SETUP (N_R:=V_S+1) ?RR START TD ?I +DL83_VERIFICATION +DL_POSTAMBLE ?RRR +DL83_VERIFICATION +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TD +DL_POSTAMBLE [NOT(CAN_SEND_IFRAME)]	L770	RR1_NR(N_R) I1_UC(N_R, V_R) RRR1_UC(V_R) RRR1_UC(V_R)	F-1 (P) (P) (F) (F) I	F-1 I-1, retransmit I P-1 Test not run
#				
Extended Comments: Q.921 Ref. 5.8.7 Executed if IUT is able to send I frame on request, and does not send a PDU or change state when a MDL_ERR_INDICATION(A) is generated.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAR0/MFO/S77/L77_I04				
Identifier: F077_I04				
Purpose: Verify that the IUT does not respond to a FEI/F=1 response received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL77_PREAMBLE !FEI(V_A)=V_S)		REL_NK(V_S)		F=1, NHI Set to V_S of 11
# # START Td TIMEOUT Td +DL73_VERIFICATION +DL_POSTAMBLE -DL77_UNEXPECTED GOTO L770 OTHERWISE +DL_POSTAMBLE	5770		(P)	
Extended Comment: s.O.321 F=1, S.R.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAR0/MFO/S77/L77_I05				
Identifier: F077_I05				
Purpose: Verify that the IUT retransmits an I frame in response to an FEI=1 response with V(A)<N(R)<V(C) received in Multiple Frame Established state (7.7). The IUT is expected to remain in Multiple Frame Established state after sending I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL73_VERIFICATION +DL_POSTAMBLE -DL77_UNEXPECTED GOTO L770 OTHERWISE +DL_POSTAMBLE TIMEOUT Td +DL_POSTAMBLE GOTO L770 OTHERWISE +DL_POSTAMBLE	L770	REL_NK(N_R)	(P)	F=1 Retransmit 1. F-don't care
# # IN QUT: REL_NK(N_R)			(F)	
Extended Comment: s.O.321 Rel. S.R.7 Expected if IUT is able to send I frame on request.				

LAPD Conformance Testing

Behaviour Description	Label	Correct Path(s) Reference	V	Comments
*DL77_FRAMEABLE !RNR(V_A: V_S)		RNR1_RR(V_S)		F=1, N(R) Set to V(S) of IUT
START T200 ?TIMEOUT T200 START T1 !RNR *DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?RNR !RNR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE	L770	RNR1_OC(V_R) RNR1_RR(V_S)	(F) (1) (1) (1) (F)	F=1 F=1

Extended Comments: Q.921 Ref. 5.8.7
Tester responds to an RNR(F=1) from the IUT to keep the IUT from changing states

4 Abstract Test Suite - Part I

and APD (Conformance Testing).

Behaviour	Description	Label	Constraints Reference	V	Comments
#	[CAN_SEND_A_FRAME] +DL70_PREAMBLE +DL77_11_SETUP (N_R := V_S_1) +RRR START_T200 ?TIMEOUT_T200 START_T3 ?RRR +RRR	L770	RRR1_NR(N_R)	(P)	$F_1, V(A) = N$ $(R) < V(A)$ P_1 F_1
#	+DL77_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_T4 +DL_POSTAMBLE ?RRR +RRR +DL_POSTAMBLE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_FRAME)]		RRR1_UC(V_S) RRR1_NR(V_S)	(I) (I) (I) (F)	$P=1$ $F=1$ Test not run

Extended Comments: Q.921 Ref. 5.8.7
 Tester responds to an RRR(P=1) from the IUT to keep the IUT from changing states.

4 Abstract Test Suite - Part I

LAPD Conformance Testing

[illegible]

Test Case Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
Reference LAPB-MO-V-UC-V-1 Identified: DL80_V08 Purpose: Verify that the IUT does not send additional frames after timer Recovery starts (is 0 when V_S-V_A=0) (when in state 400) IUT is expected to remain in timer recovery state (400) Default:				
[CAN_SEND_IFRAME] +DL80_FRAME +DL80_W_SETUP				
# # START TR (N_S::V_S:1) +TIMEOUT TR				
# +DL80_VERIFICATION +DL_POSTAMBLE	L800		(F)	
# # ERR		RR_UC(V_R)	(F)	
# +DL80_VERIFICATION +DL_POSTAMBLE				
# # ?		TL_UC(N_S, V_R)	(F)	
# +DL80_VERIFICATION +DL_POSTAMBLE				
# # ?		IO_UC(V_S, V_R)	(F)	
# +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run

Extended Comments: O.921 Ref. 5.6.1

Test Case Dynamic Behaviour				
Reference LAPB-MO-V-UC-V-1 Identified: DL80_V08 Purpose: Verify that the IUT sends a UA/1 in response to a SAMP/1 received in timer recovery state (0,0). The IUT is expected to be in Multiple Frame Established state (7,0) after sending UA/1-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_POSTAMBLE +SAMP +TIMEOUT T200 +UA (V_S::0, V_R::0, V_A::0) +DL70_VERIFICATION +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE +TIMEOUT T200 +DL_POSTAMBLE	L800	SAMP_LIC UA1 UR	(F) (F)	F-1 F-1

Extended Comments: O.921 Ref. 5.5.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S80/DL80_V12 Identifier: DL80_V12 Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.0). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	DISC_NC UA1_UR	 (P) (F) (F)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MTC/580/DL80_V13				
Identifier: DL80_V13				
Purpose: Verify that the IUT sends a UA/F 0 in response to a DISC.P=0 received in Timer Recovery state (8.0). The IUT is expected to be in TEL Assigned state (4.0) after sending UA/F 0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE		DISC0_NC		P=0
!DISC				
START T200				
?UA	L800	UA0_UR	(F)	F=0
+DL40_VERIFICATION				
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MTC/580/DL80_V14				
Identifier: DL80_V14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/P=1 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE				
!DM				
START T200				
?SABME	L800	DM1_NR		F=1
+DL51_VERIFICATION				
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V15 Identifier: DL80_V15 Purpose: Verify that the IUT sends a SABME/P=1 in response to a IM'P=0 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !IM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	DMQ_NR SABME_UC	(F) (F) (F) (F) (F) (F) (F)	P=1 P=1
Extended Comment (5.0, 5.1, 6.0, 6.1)				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V17 Identifier: IL80_V17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE +FRMR_F=1 START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE	L800	FRMR_FRL_NR SABME_UC	(P) (P) (F) (F)	P=1 P=1
Extended Comment (5.0, 5.1, 6.0, 6.1)				

Reference: IAPD/RRS/006/0050_V7.0				
Title: Table 27/006 - RR/V_R				
Purpose: Verify that the IUT sends a RR/V_R in response to a RR/V_R. The purpose is to verify that the IUT recovers in time recovery state (B.0). The IUT is expected to be in Time Recovery state (B.0) after sending RR/V_R.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> +DL80_PREAMBLE +ISB +START T200 +ISB +DL80_VERTIFICATION +DL80_POSTAMBLE +DL80_UNEXPECTED GOTO L800 +OTHERWISE +DL80_POSTAMBLE +TIMEOUT T200 +DL80_POSTAMBLE </pre>	L800	RR1_RR(V_R)	(F)	P=1 V_A=N Re_V_B
		RR1_LR(V_R)	(F)	

Extended Comments: Q.9.21 Ref. 5.6.5

Reference: IAPD/RRS/006/0050_V7.0				
Title: Table 27/006 - RR/V_R				
Purpose: Verify that the IUT sends nothing in response to a RR/V_R. The purpose is to verify that the IUT recovers in time recovery state (B.0). The IUT is expected to be in Time Recovery state (B.0) after sending nothing.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> +DL80_PREAMBLE +ISB +START T200 (T200value DELTA) +TIMEOUT T200 +ISB +DL80_VERTIFICATION +DL80_POSTAMBLE +DL80_UNEXPECTED GOTO L801 +OTHERWISE +DL80_POSTAMBLE +TIMEOUT T200 +DL80_POSTAMBLE </pre>	L800	RR1_RR(V_R)	(F)	P=0 V_A=N Re_V_B
	L801	RR1_LR(V_R)	(F)	Allow a poll due to expiry of T200
			(F)	
			(F)	Fail a poll before expiry of T200

Extended Comments: Q.9.21 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IATD/MFO/S80/SL80_V22				
Identifier: DL80_V22				
Purpose: Verify that the IUT sends nothing in response to a RR/F=1 (V_A=N_R<V_3) received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !RR		RR1_NR(V_3)		F=1 V_A=N_R R<V_3
#				
START T3 ?TIMEOUT T3 +DL70_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE	L800		(F)	
#				
#				
#				

Extended comment 3.0, 4.2, 4.3, 4.4, 5, 6, 5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IATD/MFO/S80/SL80_V23				
Identifier: DL80_V23				
Purpose: Verify that the IUT sends nothing in response to a RR/F=0 (V_A=N_R<V_3) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !RR		RR0_NR(V_3)		F=0 V_A=N_R R<V_3
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 !RR	L800			
#	L901	RR1_UC(V_R)	(P)	Allow poll due to expiry of T200
#				
#				
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE			(I)	
#				
#				
#				
+DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 +DL_POSTAMBLE +DL_POSTAMBLE		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				

Extended comment 3.0, 4.2, 4.3, 4.4, 5, 6, 5

Test Case Dynamic Behaviour				
Reference: LAPD-M02-80-T200-V25				
Label: L801-V25				
Purpose: Verify that the IUT sends nothing in response to a REJ/P-0 (V_A-N Re-V-0) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RSP-1.				
Default:				
behaviour description	Label	Constructs Reference	V	Comments
+DL80_PREAMBLE REF		REJ/P-0 (V_A-N)		P-0 V_A-N Re-V-0
+START T200 +EN	L801	REJ/P-0 (V_A-N)	(P)	(P)
+DL80_VERIFICATION +DL80_POSTAMBLE +PLUS_UNEXPECTED +GOTO L801 +OTHERWISE +DL80_POSTAMBLE +TIMEOUT T200 +DL80_POSTAMBLE				
			(F)	
			(F)	

Extended Comments: C.9.2.1 Ref. 5.6.4

Test Case Dynamic Behaviour				
Reference: LAPD-M02-80-T200-V25				
Label: L801-V25				
Purpose: Verify that the IUT sends nothing in response to a REJ/P-0 (V_A-N Re-V-0) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
behaviour description	Label	Constructs Reference	V	Comments
+DL80_PREAMBLE REF		REJ/P-0 (V_A-N)		P-0 V_A-N Re-V-0
+START T200 (T200value DELTA) +TIMEOUT T200 +START T200 +EN	L801	REJ/P-0 (V_A-N)	(P)	Allow a poll due to expiry of T200
+DL80_VERIFICATION +DL80_POSTAMBLE +PLUS_UNEXPECTED +GOTO L801 +OTHERWISE +DL80_POSTAMBLE +TIMEOUT T200 +DL80_POSTAMBLE			(I)	
			(I)	
		REJ/P-0 (V_A-N)	(F)	Fail a poll before expiry of T200
			(F)	

Extended Comments: C.9.2.1 Ref. 5.6.4

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V26				
Identifier: DL80_V26				
Purpose: Verify that the IUT sends nothing in response to a REJ/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE ?REJ				
# START TD ?TIMEOUT T200 +DL70_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE	L800	REJ1_NR(V_S)	(P)	F=1 V_A<=N_R<=V_S
			(F)	
Extended Comment s: Q.521 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V27				
Identifier: DL80_V27				
Purpose: Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE ?REJ				
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L800	REJ0_NR(V_S)		F=0 V_A<=N_R<=V_S
	L801	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
			(I)	
?RR				
#			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R)		
			(F)	
Extended Comment s: Q.521 Ref. 5.6.4				

1 APD Conformance Testing

Test Case: V2001 - Behaviour				
Reference LAPD RM-0/2001 Phase V201				
Identified: V2001, V201				
Purpose: Verify that the IUP sends nothing in response to a RRK/P 1 (V A-N Re-V) received in Timer Recovery state (B.0). The IUP is expected to be in Timer Recovery state (B.4) after receiving RRK/P 1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
+DL80_PREAMBLE		RRK1_RC(V_R)		1-1 V A-N Re-V
#				
START T200				
RRK	L800	RRK1_UC(V_R)	(P)	P 1
+DL84_VERIFICATION				
+DL80_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
OTHERWISE			(F)	
+DL_POSTAMBLE				
TIMEOUT T200				
+DL_POSTAMBLE				
Excluded Comments: Q.921 Ref. 5.6.5				

1 APD Conformance Testing

Test Case: V2001 - Behaviour				
Reference LAPD RM-0/2001 Phase V201				
Identified: V2001, V201				
Purpose: Verify that the IUP sends nothing in response to a RRK/P 0 (V A-N Re-V) received in Timer Recovery state (B.0). The IUP is expected to be in Timer Recovery state (B.4).				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comment
+DL80_PREAMBLE		RRK0_RC(V_R)		P 0 V A-N Re-V
#				
START T200 (T200value DELTA)				
TIMEOUT T200	L800			
START T200				
RRK	L801	RRK1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL84_VERIFICATION				
+DL_POSTAMBLE				
+DL84_UNEXPECTED				
GOTO L801			(T)	
OTHERWISE				
+DL_POSTAMBLE			(T)	
TIMEOUT T200				
+DL_POSTAMBLE				
#				
#				
#				
+DL_POSTAMBLE				
+DL80_UNEXPECTED				
GOTO L800				
OTHERWISE				
+DL_POSTAMBLE				
RRK1_UC(V_R)			(F)	Fail a poll before expiry of T200
#				
#				
#				
Excluded Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V30				
Identifier: DL80_V30				
Purpose: Verify that the IUT sends nothing in response to a RNR/F-1 (V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Multiple Frame Established state (7.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !RNR		RNR1_NR(V_S)		F=1 V_A<N_R<V_S
#				
START T200 ?TIMEOUT T200 START T3 ?RR	L800			
+LL84_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RR		F=1 UC(V_R)	(F)	F=1
+DL_POSTAMBLE +DL80_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE			(I)	
		F=1 UC(V_R)	(I)	
			(F)	

Extended Comment: 9.3 Ref. 5.6.5

At the instant that the IUT receives RNR F-1, it starts its T200 timer. In order to not incorrectly fail the IUT when it enters a poll upon expiry of the T200, a poll received prior to the TIMEOUT of T200 is assigned an IMMEDIATE verdict; a poll received after expiry of T200 is assigned a Conditional PASS verdict with a verification of the appropriate state.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V31				
Identifier: DL80_V31				
Purpose: Verify that the IUT sends nothing in response to a RNR/F-0 (V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !RNR		RNR0_NR(V_S)		F=0 V_A<N_R<V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L800 L801			
+DL84_VERIFICATION +DL_POSTAMBLE +LL84_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR		RNR1_UC(V_R)	(F)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
			(F)	

Extended Comment: 9.3 Ref. 5.6.5

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V32 Identifier: DL80_V32 Purpose: Verify that the IUT sends a RR/F-1 in response to a 1111 received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F-1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !1 (V_R:=V_R+1) START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE +DL_POSTAMBLE	L800	11_NC(V_R, V_S) RR1_UC(V_R)	(P)	P 1 N_S V_R N_R V_S F 1
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V32 Identifier: DL80_V32 Purpose: Verify that the IUT RR/F-0 in response to a 1/P-0 received in Timer Recovery state (8.0). The IUT is expected to remain in Timer Recovery state (8.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !1 (V_R:=V_R+1) START T200 ?TIMEOUT T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE ?1 +DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE	L800 L801	10_NC(V_R, V_S) RR1_UC(V_R) 11_NC(V_S, V_R)	(P) (P) (F) (F)	P 0 N_S V_R N_R V_S P=1 P 1
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V34 Identifier: DL80_V34 Purpose: Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in timer recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1
#				
START T200 ?REJ +DL81_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	REJ1_UR(V_R)	(F)	F=1
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V35 Identifier: DL80_V35 Purpose: Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S>V_R, N_R=V_S) received in timer recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_S:=V_R+1) ! I		I0_NC(N_S, V_S)		P=0
#				
START T200 ?REJ +DL81_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	REJ0_UR(V_R)	(P)	F=0
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/380/DL80_V16				
Identifier: DL80_V16				
Purpose: Verify that the IUT sends a RR F 1 in response to a I-P 1 (N_S V_R V_A-N_R V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_FFRAMEBLE +DL80_21_SETUP ?1 (V_R: V_R+1)		IL_NC (V_R, V_S)		F 1 (N_S V_R, V_A-N_R V_S)
START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L800	RR_UR (V_R)	(F)	F 1
#				Test not run

Extended Comments: Q.921 Ref. 5.6.2.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/380/DL80_V17				
Identifier: DL80_V17				
Purpose: Verify that the IUT sends a RR/F 0 or 1 in response to a I-P 0 (N_S V_R V_A-N_R V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F 0 or 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_FFRAMEBLE +DL80_21_SETUP ?1 (V_R: V_R+1)		IL_NC (V_R, V_S)		P 0 (N_S V_R, V_A-N_R V_S)
START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE ?1	L800	RR_UR (V_R)	(F)	F 0
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		IL_NC (V_S, V_R)	(F)	F 1
#				Test not run

Extended Comments: Q.921 Ref. 5.6.2.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V38 Identifier: DL80_V38 Purpose: Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S<V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=1. Initial fault:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_IFRAMES) +DL70_PREAMBLE +DL8_21_SETUP (N_S:=V_R+1) !! START T200 REJ +DL81_VERIFYIFICATION +DL_POSTAMBLE +DL8_21_VERIFYIFICATION GOTO L800 OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE (HOF(CAN_SEND_IFRAMES))	8.0	11 N_S, V_A, V_R, V_S	(F)	Test not run
Extended Comment: 8.1 Ref. 8.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_V39 Identifier: DL80_V39 Purpose: Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<V_R V_A<N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_IFRAMES) +DL70_PREAMBLE +DL8_21_SETUP (N_S:=V_R+1) !! START T200 REJ +DL81_VERIFYIFICATION +DL_POSTAMBLE +DL8_21_VERIFYIFICATION GOTO L800 OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE (HOF(CAN_SEND_IFRAMES))	8.0	10 N_S, V_A, V_R, V_S	(P)	P=0 (N_S<V_R, V_A<N_R<V_S) F=0
Extended Comment: 8.1 Ref. 8.1				

Test Case Dynamic Behaviour				
Reference: LAMP-MFO-580-DL80-V4.0				
Identifier: DL80_V4.0				
Purpose: Verify that the IUT sends a RR/F 1 in response to a I/P 0 (N S V R V A N_R V S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F 1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
+DL70_PREAMBLE +DL80_11_SETUP !! (V_R::V_R+1)		!! NC (V_R, V_S)		P 1 (N S V_R, V_A N_R V_S)
START T200 ?RR +DL80_VERIFICATION +DL_POSTTABLE GOTO L800 ?OTHERWISE +DL_POSTTABLE ?TIMEOUT T200 +DL_POSTTABLE	L800	RR_OR (V_R)	(F)	F 1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAMP-MFO-580-DL80-V4.1				
Identifier: DL80_V4.1				
Purpose: Verify that the IUT sends a RR/P 0 or 1 in response to a I/P 0 (N S V R V A N_R V S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/P 0 or 1.				
Default:				
Behaviour Description	Label	Constraint Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL80_11_SETUP !! (V_R::V_R+1)		!! NC (V_R, V_S)		S 7.0 P=0
START T200 ?RR +DL80_VERIFICATION +DL_POSTTABLE ?1	L800	RR_OR (V_R)	(P)	F 0
+DL80_VERIFICATION +DL_POSTTABLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTTABLE ?TIMEOUT T200 +DL_POSTTABLE [NOT (CAN_SEND_A_IFRAME)]		!! NC (V_S, V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/Db:U_V43 Identifier: DL80_V43 Purpose: Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<V_R, V_A=N_R<V_S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.1) after sending REJ/F=0.				
Details:	Behaviour Description	Label	Constraints Reference	V
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F) (F)
	<pre> (CAN_SEND_A_IFRAME) +DL_1_PREAMBLE +DL_8_11_EXPECTED IN_S:=V_R+1 V_S:=V_S+1 V_A:=V_A+1 V_R:=V_R+1 START T200 END </pre>	L800	ID_NC(N_S, V_S) RETO_UR(V_R)	F=0 (N_S<V_R, V_A=N_R<V_S) F=0 (F)

#	Behaviour Description	Label	Consistency Reference	V	Comments
#	<p>DLRO_PREFABT (RC : 1)</p> <p>[RC N200] START 'M +MK(RC : RC+1) COTO L801 +DL80_UNEXPECTED COTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT 'M +DL_POSTAMBLE [RC N200] START 'M</p>	L800 L801	REL_UC(V R)	(F)	Timeout once in Programme
#	<p>+DL51_PREFABT (RC : 1)</p> <p>[RC N200] START 'M +DL51_VERIFICATION +DL51_POSTAMBLE COTO L802 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT 'M +DL_POSTAMBLE</p>	L802	SAMMEL_UC	(F)	

Default :

Reference: LAMP, MVS, No. 1380, V44

Identifier: DL51_V44

Purpose: Verify that the IOT sends a SAME 'M after timeout of the N200 times in time recovery state (S.O). The IOT is expected to be in Establishment state (S.O) after sending SAME 'M.

Extended Comments: O. 92, Ref. 5.6.7

Test Case: Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_FRAME] +DL80_PREAMBLE +DL80_11_SETUP START "IN" (N S := V S - 1) ?RR +DL80_VERIFICATION +DL_POSTAMBLE	L800	RR1_UC (V_R)	{P}	P-1
#		11_UC (V_S, V_R)	{P}	P-1
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT "IN" +DL_POSTAMBLE [NOT (CAN_SEND_A_FRAME)]			{F}	Test not run
#			{F}	

Default:

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_V46				
Identifier:DL80_V46				
Purpose:Verify that the IUT sends a RR/P=1 in response to a timeout T200 (RC=N200.V.A=V.S) received in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL80_PREAMBLE START Td ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(T203_IMPLEMENTED)]	L800	RR1_UC(V_R)	(P)	P=1
#				Test not run
Extended Comments:Q.921 Ref. 5.6.7 Time out with V(A)=V(S) can be achieved only when T203 is implemented.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_V47				
Identifier:DL80_V47				
Purpose:Verify that the IUT sends a RNR/P=1 or RNR/P=0 when it sets OWN_BUSY in Timer Recovery state (8.0). The IUT is expected to be in Timer Recovery/ Normal/ Own Busy state (8.2) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL80_PREAMBLE <IUT:RNR> # START TdPr ?RNR +DL82_VERIFICATION +DL_POSTAMBLE ?RNR +DL82_VERIFICATION +DL_POSTAMBLE ?RR GOTO L800 +DL80_UNEXPECTED GOTO L800 ?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TdPr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L800	RNR1_UC(V_R) RNR0_UR(V_R) RR1_UC(V_R) SABME1_UC	(P) (P) (I) (F) (F)	Set Own Busy P=1 F=0 P=1 P=1
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.6				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N01				
Identifier: DL80_N01				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R := ((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L802 +DL80_UNEXPECTED ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	RR1_NC(N_R) SABME1_UC RR1_UR(V_R) SABME1_UC	 (F) (F)	 P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N02				
Identifier: DL80_N02				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R := ((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N03 Identifier: DL80_N03 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R::=((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L800	RRL_NR(N_R) SABME_UC	(P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N04 Identifier: DL80_N04 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R::=((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L800	RRO_NR(N_R) SABME_UC	(P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N05 Identifier:DL80_N05 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	REJ1_NC(N_R)	(P)	P=1
	L801	RRI_UR(V_R)	(P)	P=1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N06 Identifier: DL80_N06 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N=R-V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	REJ0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N07				
Identifier: DL80_N07				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R-V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L800	REJ_NR(N_R) SABME_UC	(P) (P) (F) (F)	F=1 P=1
Extended Comments: 0.9.21 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N08				
Identifier: DL80_N08				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R-V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L800	REJ_NR(N_R) SABME_UC	(P) (F) (F)	F=0 P=1
Extended Comments: 0.9.21 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N09				
Identifier:DL80_N09				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R:=((V_S+K)+1)) :RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	RNR1_NC(N_R) SABME1_UC RR1_UR(V_R) SABME1_UC	 (P) (P)	P=1 P=1 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N10				
Identifier:DL80_N10				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R:=((V_S+K)+1)) :RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	RNR0_NC(N_R) SABME1_UC	 (P) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N11 Identifier: DL80_N11 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L800	RNR1_NR(N_R) SABME1_UC	(P) (P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N12 Identifier: DL80_N12 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R=V_S+K+1) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L800	RNR0_NR(N_R) SABME1_UC	(P) (P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPO/MFO/S80/DL80_N13				
Identifier:DL80_N13				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R=V_S+1) received in timer recovery state (8.0). The IUT is expected to be in awaiting establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
#				
+DL80_PREAMBLE (N_R := ((V_S+K)+1)) ! I (V_R := V_R+1)		I1_NC (V_R, N_R)		P=1
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L800	SABME1_UC	(P)	P=1
?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L801	RR1_UR (V_R) SABME1_UC	(P) (P)	P=1 P=1
			(F)	
			(F)	
			(F)	
			(F)	

Extended Comments:Q.92 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/S80_DL80_N14 Identifier:DL80_N14 Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=P=0 (N_S=V_R, N_R=V_S+K+1) received in timer recovery state (8.0). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_R::=((V_S+K)+1)) ;I #		I0_NC(V_R, N_R)		P=0
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	SABME1_UC	(P)	P=1
			(F)	
			(F)	

Extended Comments:Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N15 Identifier: DL80_N15 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<V_R, N_R=V_S+K+1) received in Timer Recovery state (8.0) . The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_S:=V_R+1,N_R:=((V_S+K)+1)) ! I		I1_NC(N_S, N_R)		P=1
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?REJ	L800	SABME1_UC	(P)	P=1
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L801	REJ1_UC(V_R) SABME1_UC	(P) (P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N16 Identifier: DL80_N16 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<V_R, N_R=V_S+K+1) received in Timer Recovery state (8.0) . The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE (N_S:=V_R+1,N_R:=((V_S+K)+1)) ! I		I0_NC(N_S, N_R)		P=0
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?REJ	L800	SABME1_UC	(P)	P=1
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L801	REJ0_UC(V_R) SABME1_UC	(P) (P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N17				
Identifier:DL80_N17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N18				
Identifier:DL80_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !DISC_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	DISC_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N19				
Identifier:DL80_N19				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !UA_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	UA_TL1_NR SABME1_UC	(F) (F) (F) (F) (F) (F) (F) (F) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N20				
Identifier:DL80_N20				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !DM_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	DM_TL1_NR SABME1_UC	(P) (P) (F) (F) (F) (F) (F) (F) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/WFO/S80/DL80_N22				
Identifier:DL80_N22				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE :RR_TL		RR_TL_NC (V_S)		
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	SABME_UC	(P)	P=1
			(F)	
			(F)	

Extended Comments:Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour			
Reference: LAPD/WFO/C80/DL80_N24 Identifier: DL80_N24 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment State (5.1) after sending SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V Comments
# +DL80_PREAMBLE :REJ_TL STAFF T200 :SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 :OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	REJ_TL_NC (V_S) SABME1_UC	P=1 (P) (F) (F)

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S80/DL80_N25				
Identifier:DL80_N25				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I frame with excess length (N201 error) received in Timer Recovery state (8.0). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE !I_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	I_TL1_NC(V_R, V_S) SABME1_UC	(P)	P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S80/DL80_N27 Identifier: DL80_N27 Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame in error (I field not permitted) in Timer Recovery state (8.0) . The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE ?SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V01 Identifier: DL81_V01 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAN_SEND_SABME) +DL81_PREAMBLE <IUT:SABME> # # # START Topr (T200value*N200) ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RR GOTO L810 +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)] #	L810	SABME1_UC RR1_UC(V_R)	(P) (F) (I) I	Initiate Link Establishment Request P=1 P=1 Test not run
Extended Comments: Q.921 Ref. 5.5.1.2 In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T200*N200 seconds.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V03				
Identifier:DL81_V03				
Purpose:Verify that the IUT does not send additional I frames in Timer Recovery state (8.1) even if V_S < V_A+K. The IUT is expected to remain in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL81_PREAMBLE <IUT:I>				Init one DL Data Request
#				
#				
START Topr (CNT:=0) (CNT<N200) ?RR (CNT:=CNT + 1) GOTO L810 +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [CNT=N200] ?SABME	L810 L811	RR1_UC(V_R)		
+DL50_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L812 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE {NOT(CAN_SEND_A_IFRAME)}	L812	SABME1_UC	(F) (I) (F) (I)	SABME after N200 polls Test not run
#			I	
Extended Comments:Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V04				
Identifier:DL81_V04				
Purpose:Verify that the IUT does not send additional I frames in Timer Recovery state (8.1) when V_S = V_A+K (window closed). The IUT is expected to remain in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL81_MC_SETUP				set window closed and timer req
#				
#				
START Td (N_S:=V_S-1) ?TIMEOUT Td +DL81_VERIFICATION +DL_POSTAMBLE ?RR	L810	RR1_UC(V_R)	(P)	IUT sends nothing
#			(P)	P=1, IUT polls w/ RR/1
#				
+DL81_VERIFICATION +DL_POSTAMBLE ?I		I1_UC(N_S, V_R)	(P)	P=1, IUT retrans. last I
#				
#				
+DL81_VERIFICATION +DL_POSTAMBLE ?I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
#				
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V08				
Identifier:DL81_V08				
Purpose:Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0)		SABME_NC		P=1
#	L810	UA1_UR	(P)	F=1
+DL70_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V10				
Identifier:DL81_V10				
Purpose:Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0)		SABME0_NC		P=0
#	L810	UA0_UR	(P)	F=0
+DL70_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V12				
Identifier:DL81_V12				
Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DISC START T200 ?UA	L810	DISC1_NC UA1_UR	(P)	P=1 F=1
#				
+DL40_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V13				
Identifier:DL81_V13				
Purpose:Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DISC START T200 ?UA	L810	DISC0_NC UA0_UR	(P)	P=0 F=0
#				
+DL40_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V14				
Identifier:DL81_V14				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	DM1_NR SABME1_UC	(P) (P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V15				
Identifier:DL81_V15				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	DM0_NR SABME1_UC	(P) (P)	F=0 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V17				
Identifier:DL81_V17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	FRMR_RR1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V20				
Identifier:DL81_V20				
Purpose:Verify that the IUT sends a RR/F=1 in response to a RR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RR # START T200 ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RR1_NC(V_S) RR1_UR(V_R)	(P)	P=1 V_A<=N_R<=V_S F=1
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V21 Identifier:DL81_V21 Purpose:Verify that the IUT sends nothing in response to a RR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810			
# # # # +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR	L811	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# # # +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R)	(I) (I) (F) (F)	Fail a poll before expiry of T200
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V22 Identifier:DL81_V22 Purpose:Verify that the IUT send nothing in response to a RR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RR		RR1_NR(V_S)		F=1 V_A<=N_R<=V_S
# START Td ?TIMEOUT Td	L810		(P)	
# +DL71_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V23				
Identifier: DL81_V23				
Purpose: Verify that the IUT sends nothing in response to a RR/F=0 (V_A<=N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RR		RR0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA)	L810			
?TIMEOUT T200				
START T200				
?RR	L811	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RR		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V24				
Identifier: DL81_V24				
Purpose: Verify that the IUT sends a RR/F=1 in response to a REJ/P=1 (V_A<=N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !REJ		REJ1_NC(V_S)		P=1 V_A<=N_R<=V_S
# START T200				
?RR	L810	RR1_UR(V_R)	(P)	F=1
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S81/DL81_V25					
Identifier:DL81_V25					
Purpose:Verify that the IUT sends nothing in response to a REJ/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL81_PREAMBLE !REJ		REJ0_NC (V_S)		P=0 V_A<=N_R<=V_S	
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810			Allow a poll due to expiry of T200	
#	L811	RR1_UC(V_R)	(P)		
# +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR					
#			(I)		
#			(I)		
#		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200	
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE					
#			(F)		
Extended Comments:Q.921 Ref. 5.6.4					

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LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S81/DL81_V26					
Identifier:DL81_V26					
Purpose:Verify that the IUT send nothing in response to a REJ/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.1).					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL81_PREAMBLE !REJ		REJ1_NR (V_S)		F=1 V_A<=N_R<=V_S	
# START Td ?TIMEOUT Td	L810		(P)		
# +DL71_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE					
#			(F)		
Extended Comments:Q.921 Ref. 5.6.4					

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V27				
Identifier:DL81_V27				
Purpose:Verify that the IUT sends nothing in response to a REJ/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !REJ		REJ0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810			
#	L811	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
		RR1_UC(V_R)	(I)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V28				
Identifier:DL81_V28				
Purpose:Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RNR		RNR1_NC(V_S)		P=1 V_A<=N_R<=V_S
# START T200 ?RR +DL85_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V29 Identifier:DL81_V29 Purpose:Verify that the IUT sends nothing in response to a RNR/P=0 (V_A <- N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 V_A<=N_R R<=V_S
# START T200 (T200value=DELTA) ?TIMEOUT T200 START T200 ?RR	L810			
#	L811	RRL_UC(V_R)	(P)	Allow a poll due to expiry of T200
# +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR				
#			(I)	
# +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE			(I)	
#		RRL_UC(V_R)	(F)	Fail as poll received expiry T200
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V30 Identifier:DL81_V30 Purpose:Verify that the IUT send nothing in response to a RNR/P=1 (V_A < N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Multiple Frame Established state (7.5). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RNR		RNR1_NR(V_S)		P=1 V_A<=N_R R<=V_S
# START T200 ?TIMEOUT T200 START Td ?RR +DL85_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE	L810			
		RRL_UC(V_R)	(P)	P=1
			(I)	
			(I)	
		RRL_UC(V_R)	(I)	P=1
			(F)	
Extended Comments:Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/P=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V31				
Identifier: DL81_V31				
Purpose: Verify that the IUT sends nothing in response to a RNR/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !RNR		RNR0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810			
#	L811	RRI_UC(V_R)	(P)	Allow a poll due to expiry of T200
# +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
#			(I)	
# +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE		RRI_UC(V_R)	(F)	Fail a poll before expiry of T200
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V32				
Identifier: DL81_V32				
Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !I (V_R::=V_R+1)		I1_NC(V_R, V_S)		P=1 N_S=V_R N_R=V_S
# START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RRI_UR(V_R)	(P)	F=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V33				
Identifier:DL81_V33				
Purpose:Verify that the IUT sends either a RR or an I frame to acknowledge an I/P=0 received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ! I (V_R:=V_R+1)		I0_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE	L810	RR0_UR(V_R)	(P)	F=0
? I		I1_NC(V_S, V_R)	(P)	P=1
# +DL80_VERIFICATION +DL_POSTAMBLE		I0_NC(V_S, V_R)	(P)	P=0
? I				
+DL80_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V34				
Identifier:DL81_V34				
Purpose:Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S <> V_R, N_R = V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1
# START T200 ?RR +DL81_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RR1_UR(V_R)	(P)	P=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V35				
Identifier:DL81_V35				
Purpose:Verify that the IUT sends nothing in response to a I/P=0 (N_S <> V_R, N_R = V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_S::=V_R+1) ! I		IO_NC(N_S, V_S)		P=0
#				
START T200 (T200value-DELTA)	L810			
?TIMEOUT T200				
START T200				
?RR	L811	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
?RR				
#				
#				
#				
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_V36				
Identifier:DL81_V36				
Purpose:Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S = V_R, V_A < N_R < V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL81_21_SETUP ! I (V_R::=V_R+1)		IL_NC(V_R, V_S)		P=1 (N_S=V_R, V_A<N_R<V_S)
#				
#				
START T200				
?RR	L810	RR1_UR(V_R)	(P)	F=1
+DL80_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
[NOT(CAN_SEND_IFRAMES)]				
#				
Extended Comments:Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V37				
Identifier: DL81_V37				
Purpose: Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S = V_R, V_A < N_R < V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0 or I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL81_2I_SETUP ! I (V_R::=V_R+1)		!0_NC(V_R, V_S)		P=0 (N_S=V_R, V_A<N_R< V_S)
START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE ?I	L810	RR0_UR(V_R)	(P)	F=0
+DL80_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		!1_UC(V_S, V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V38				
Identifier: DL81_V38				
Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S < V_R, V_A < N_R < V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL81_2I_SETUP (N_S::=V_R+1) ! I		!1_NC(N_S, V_S)		P=1 (N_S < V_R, V_A < N_R R < V_S)
START T200 ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L810	RR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V39 Identifier: DL81_V39 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S<V_R, V_A<N_R<V_S) received in Timer Recovery state (8.1). . The IUT is expected to be in Timer Recovery state (8.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL81_2I_SETUP (N_S::=V_R+1) ! I		I0_NC(N_S, V_S)		P=0 (N_S<> V_R, V_A<N_R<V_S)
START T200				
?(T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810			
?	L811	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
?				
?				
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RR		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
?				
?				
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V40 Identifier: DL81_V40 Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL81_1I_SETUP !1 (V_R::=V_R+1)		I1_NC(V_R, V_S)		P=1 (N_S=V_R, V_A=N_R<V_S)
?				
START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L810	RR1_UR(V_R)	(P)	F=1
?				
?			(F)	
?			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V41				
Identifier: DL81_V41				
Purpose: Verify that the IUT sends a RR/F=0 or I in response to a I/P=0 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0 or I.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL81_1I_SETUP ! I(V_R::=V_R+1)		I0_NC(V_R, V_S)		s7.0
#				P=0
START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE	L810	RR0_UR(V_R)	(P)	F=0
?I				P=1
+DL80_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		I1_UC(V_S, V_R)	(P)	(F)
#				(F)
				I
				Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V42				
Identifier: DL81_V42				
Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<> V_R, V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL81_1I_SETUP (N_S::=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 (N_S < V_R, V_A=N_R<V_S)
#				R<V_S)
#				F=1
START T200 ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L810	RR1_UR(V_R)	(P)	
				(F)
				(F)
			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V43 Identifier: DL81_V43 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S <> V_R, V_A=N_R<V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL81_LI_SETUP (N_S:=V_R+1) ! I START T200 #(T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L810 L811	I0_NC(N_S, V_S)		P=0 (N_S <> V_R, V_A=N_ R<V_S)
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR		RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V44 Identifier: DL81_V44 Purpose: Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (RC:=1) # #				Timeout once in Preamble
[RC<N200] START Td ?RR(RC:=RC+1) GOTO L810 +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [RC=N200] START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L812 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L810 L811	RR1_UC(V_R)		P=1
			(F)	
			(F)	
	L812	SABME1_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V45				
Identifier: DL81_V45				
Purpose: Verify that the IUT sends a RR/P=1 or retransmits I/P=1 after a timeout T200 (RC<N200, V_A<V_S) in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/P=1 or I/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL81_I1_SETUP START Td ?RR +DL81_VERIFICATION +DL_POSTAMBLE ?I +DL81_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(CAN_SEND_A_IFRAME))	L810	RR1_UC(V_R) I1_UC(V_S, V_R)	(P) (P) (F) (F)	P=1 P=1 Test not run
#				
Extended Comments: Q.921 Ref. 5.6.7				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V46				
Identifier: DL81_V46				
Purpose: Verify that the IUT sends a RR/P=1 in response to a timeout T200 (RC < N200, V_A = V_S) received in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL81_PREAMBLE START Td ?RR +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(T203_IMPLEMENTED))	L810	RR1_UC(V_R)	(P)	P=1
#				
Extended Comments: Q.921 Ref. 5.6.7 Time out with V(A)=V(S) can be achieved only when T203 is implemented.				
I				
Test not run				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_V47				
Identifier: DL81_V47				
Purpose: Verify that the IUT sends a RNR/P=1 when it sets OWN_BUSY in Timer Recovery state (8.1). The IUT is expected to be in Timer Recovery 8.3 after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL81_PREAMBLE <IUT RNR>				Set Own Busy
#				
START Topr				
?RNR +DL83_VERIFICATION +DL_POSTAMBLE	L810	RNR1_UC(V_R)	(P)	P=1
?RNR +DL83_VERIFICATION +DL_POSTAMBLE		RNR0_UC(V_R)	(P)	F=0
?RR GOTO L810 +DL81_UNEXPECTED		RR1_UC(V_R)		P=1
?SABME GOTO L810		SABME1_UC	(I)	P=1
?OTHERWISE +DL_POSTAMBLE			(F)	
?TIMEOUT Topr +DL_POSTAMBLE			(F)	
[NOT(CAN_TEST_OWN_BUSY)]			I	Test not run
Extended Comments: Q.921 Ref. 5.6.6				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N01				
Identifier: DL81_N01				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !RR				
START T200				
?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L810	RR1_NC(N_R)		P=1
?RR		SABME1_UC	(P)	P=1
START Td				
?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L811	RR1_UR(V_R)		F=1
+DL81_UNEXPECTED GOTO L811		SABME1_UC	(P)	P=1
?OTHERWISE +DL_POSTAMBLE			(F)	
?TIMEOUT Td			(F)	
+DL81_UNEXPECTED GOTO L810				
?OTHERWISE +DL_POSTAMBLE			(F)	
?TIMEOUT T200 +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N02 Identifier: DL81_N02 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R::=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N03 Identifier: DL81_N03 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R::=((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L810	RR1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N04 Identifier: DL81_N04 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L810	RR0_NR (N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N05 Identifier: DL81_N05 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810 L811	REJ1_NC (N_R) SABME1_UC RR1_UR (V_R) SABME1_UC	(P) (P) (P) (P) (F) (F) (F) (F)	P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_N06				
Identifier:DL81_N06				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	REJO_NC(N_R) SABME_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S81/DL81_N07				
Identifier:DL81_N07				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	REJ1_NR(N_R) SABME_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N08 Identifier: DL81_N08 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L810	REJ0_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N09 Identifier: DL81_N09 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !RNR # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	 L810 L811	 RNR1_NC(N_R) SABME1_UC RNR1_UR(V_R) SABME1_UC	 (F) (F) (F) (F)	 P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N10 Identifier: DL81_N10 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !RNR # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	RNR0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N11 Identifier: DL81_N11 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := ((V_S+K)+1)) !RNR # START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L810	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N12				
Identifier: DL81_N12				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := (V_S+K+1)) !RNR		RNR0_NR(N_R)		F=0
# START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L810	SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N13				
Identifier: DL81_N13				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R := (V_S+K+1)) !I (V_R := V_R+1)		T1_NC(V_R, N_R)		P=1
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE ?TIMEOUT Td +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME1_UC	(P)	P=1
	L811	RR1_UR(V_R)		F=1
		SABME1_UC	(P)	P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S81/DL81_N14				
Identifier: DL81_N14				
Purpose: Verify that the IUT sends a SARME/P=1 in response to a I/P=P=0 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SARME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_R::=((V_S+K)+1)) ! I		I0_NC(V_R, N_R)		P=0
#				
START T200 ?SARME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SARME_UC	(P)	P=1
			(F)	
			(F)	

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/Ssl/DL81_Nl5					
Identifier:DL81_Nl5					
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL81_PREAMBLE (N_S:=V_R+1,N_R::=((V_S+K)+1)) !I		I1_NC(N_S, N_R)		P=1	
#					
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L810	SABME_UC	(P)	P=1	
?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L811 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE		RR1_UR(V_R)		P=1	
+DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L811	SABME_UC	(P)	P=1	
			(F)		
			(F)		
			(F)		
			(F)		

extended Comments:Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N16				
Identifier: DL81_N16				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE (N_S := V_R+1, N_R := ((V_S+K)+1)) ; I		IO_NC(N_S, N_R)		P=0
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N17				
Identifier: DL81_N17				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ; SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME_TL1_NC SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N18				
Identifier: DL81_N18				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a DISC with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DISC_TL START T200 ?SABME +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	DISC_TL1_NC SABME_UC	(P)	I-1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N19				
Identifier: DL81_N19				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a UA with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !UA_TL START T200 ?SABME +DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	UA_TL1_NH SABME_UC	(P)	P-1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N20				
Identifier: DL81_N20				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !DM_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL1_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	DM_TL1_NR SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N21				
Identifier: DL81_N21				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE !FRMR_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL1_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	FRMR_TL1_NR SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/381/TL1_N22				
Identifier: DL81_N22				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a RR with excess length received in Timer Recovery state (6.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ?RR_TL		RR_TL1_NC (V_S)		
#				
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/381/DL81_N22				
Identifier: DL81_N23				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a RNR with excess length received in Timer Recovery state (6.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ?RNR_TL		RNR_TL1_NC (V_S)		
#				
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N24				
Identifier: DL81_N24				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ with excess length received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ! I_TL # START T200 ? SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ? OTHERWISE +DL_POSTAMBLE ? TIMEOUT T200 +DL_POSTAMBLE	L810	REJ_TL1_NC (V_S)	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL81_N25				
Identifier: DL81_N25				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE ! I_TL # START T200 ? SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ? OTHERWISE +DL_POSTAMBLE ? TIMEOUT T200 +DL_POSTAMBLE	L810	I_TL1_NC (V_S, V_R) SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAPD/WFO/S81/DL81_N26					
Identifier:DL81_N26					
Purpose:	Verify that the IUT sends a SAEME/P=1 in response to an undefined frame received in Timer Recovery state (3.1). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SAEME/P=1.				
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL81_PREAMBLE !UNDEF START T200 ?SAEME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	UNDEF1_NC SABME1_UC	(P)	P=1	
			(F)	(F)	
			(F)	(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SSL/DLS1_N27				
Identifier: DLS1_N27				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a IAME in error (I field not permitted) in Timer Recovery state (R.O).				
. The IUT is expected to be in Awaiting Establishment state (S.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL81_PREAMBLE :SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L810 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L810	SABME_TL1_NC SABME1_UC	(P) (P) (F) (F)	P=1
Extended Comments: O.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference:LAFD/MFO/S82/DL82_V03					
Identifier:DL82_V03					
Purpose:Verify that the IUT does not send additional I frame in Timer Recovery state (8.2) even if V_S < V_A+K. The IUT is expected to be in Timer Recovery state (8.2).					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[CAN_SEND_A_IFRAME] +DL82_PREAMBLE <IUT! I>				
#	START Topr (CNT:=0) [CNT<N200] ?RNR (CNT:=CNT + 1) GOTO L820 +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [CNT=N200] ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L822 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L820 L821	RNR1_UC(V_R)		Init one DL Data Request
#				(F)	
#				(I)	
#		L822	SABME1_UC	(P)	SABME after N200 polls
#				(F)	
#				(I)	
#				I	Test not run

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V04				
Identifier: DL82_V04				
Purpose: Verify that the IUT does not send additional I frame in Timer Recovery state (8.2) when V_S = V_AK (window is closed). The IUT is expected to remain in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL82_WC_SETUP				set window closed and timer req
#				
#				
START Td (N_S:=V_S-1) ?TIMEOUT Td	L820		(P)	IUT sends nothing
#				
+DL82_VERIFICATION +DL_POSTAMBLE ?RNR		RNR1_UC(V_R)	(P)	P=1, IUT polls w/ RNR/1
#				
#				
+DL82_VERIFICATION +DL_POSTAMBLE ?I		I1_UC(N_S, V_R)	(P)	P=1, IUT retrans. last I
#				
#				
+DL82_VERIFICATION +DL_POSTAMBLE ?I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
#				
+DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V10 Identifier: DL82_V10 Purpose: Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !SABME START T200 ?UA (V.S::=0,V.R::=0,V.A::=0) +DL70_VERIFICATION +DL_POSTAMBLE GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	SABME0_NC UA0_UR	(P) (F) (F)	P=0 F=0
Extended Comments: Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V12 Identifier: DL82_V12 Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.2). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DISC1_NC UA1_UR	(P) (F) (F)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S8/2/DL82_V13 Identifier: DL82_V13 Purpose: Verify that the IUT sends a UA/F=0 in response to a DISC/F=0 received in Timer Recovery state (8.2). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DISC0_NC UA0_UR	(F) F=0 (F) (F)	F=0 F=0
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S8/2/DL82_V14 Identifier: DL82_V14 Purpose: Verify that the IUT sends a SARME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SARME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !DM START T200 ?SARME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DM1_NR SARME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V15				
Identifier: DL82_V15				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DM0_NR SABME1_UC	(P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V17				
Identifier: DL82_V17				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	FRMR_RR1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MR/VS2/DL82_V20				
Identifier: DL82_V20				
Purpose: Verify that the IUT sends a RR/t=1 in response to a RR/P=1 (V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR, F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RR		RR1_NC(V_S)		P=1 V_A<N_R<V_S
# START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	RNR1_UR(V_R)	(P)	F=1
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MR/VS2/RL82_V21				
Identifier: RL82_V21				
Purpose: Verify that the IUT sends nothing in response to RR/P=0 (V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<N_R<V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L820			
#	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
# ?RNR			(I)	
#		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
# +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE			(F)	

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Extended Comments: Q.921 Ref. 5.6.5

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V22				
Identifier: DL82_V22				
Purpose: Verify that the IUT sends nothing in response to a RR/F=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RR		RR1_NR(V_S)		F=1 V_A<N_R<=V_S
#				
START Td				
?TIMEOUT Td				
+DL72_VERIFICATION				
+DL_POSTAMBLE				
+DL82_UNEXPECTED				
GOTO L820				
?OTHERWISE				
+DL_POSTAMBLE				
	L820		(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour

Reference: LAPD/MFO/S82/DL82_V23

Identifier: DL82_V23

Purpose: Verify that the IUT sends nothing in response to a RR/F=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).

Default:

Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RR		RR0_NR(V_S)		F=0 V_A<N_R<=V_S
#				
START T200 (T200value-DELTA)				
?TIMEOUT T200	L820			
START T200				
?RNR	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL82_VERIFICATION				
+DL_POSTAMBLE				
+DL82_UNEXPECTED				
GOTO L821				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V24				
Identifier: DL82_V24				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a REJ/P=1 (V_A<N,R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !REJ		REJ1_NC(V_S)		P=1 V_A<N_R<=V_S
#				
START T200 ?RNR	L820	RNR1_UR(V_R)	(P)	F=1
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V25				
Identifier: DL82_V25				
Purpose: Verify that the IUT sends nothing in response to a REJ/P=0 (V_A<N,R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !REJ		REJ0_NC(V_S)		P=0 V_A<N_R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L820			
	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(I)	
			(I)	
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V27				
Identifier: DL82_V27				
Purpose: Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !REJ		REJ0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA)	L820			
?TIMEOUT T200				
START T200				
?RNR	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL82_VERIFICATION +DL_POSTAMBLE			(I)	
+DL82_UNEXPECTED GOTO L821			(I)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE				
+DL82_UNEXPECTED GOTO L820				
?OTHERWISE				
+DL_POSTAMBLE			(F)	

Extended Comments: 0.921 Ref. 5.6.4

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SF-/DL82_V28				
Identifier: DL82_V28				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a RNR/P=1 (V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RNR		RNR1_NC(V_S)		P=1 V_A<N_R<V_S
#				
START T200				
?RNR		RNR1_UR(V_R)	(P)	F=1
+DL86_VERIFICATION				
+DL_POSTAMBLE				
+DL86_UNEXPECTED				
GOTO L820				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.6.5				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DLS_V39				
Identifier: DL82_V29				
Purpose: Verify that the IUT sends nothing in response to a RNR/P=0 (V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 V_A<N_R<V_S
#				
START T200 (T200value-DELTA)				
?TIMEOUT T200	L820			
START T200				
?RNR	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL86_VERIFICATION				
+DL_POSTAMBLE				
+DL86_UNEXPECTED				
GOTO L821				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE				
+DL82_UNEXPECTED				
GOTO L820				
?OTHERWISE				
+DL_POSTAMBLE				
			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/NFO/S82/DL82_V30 Identifier: DL82_V30 Purpose: Verify that the IUT sends nothing in response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Multiple Frame Established state (7.6). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RNR # START T200 ?TIMEOUT T200 START Td ?RNR +DL86_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE	L820	RNRL_NR(V_S) RNRL_UC(V_R) RNRL_UC(V_R)	(P) (I) (I) (I)	F=1 V_A<=N_R<=V_S P=1 P=1
Extended Comments: Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFC/S82/PL82_V31				
Identifier: DL82_V31				
Purpose: Verify that the IUT sends nothing in response to RNR/F=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE ?RNR		RNR0_NR(V_S)		F=0 V_A<N_R<=V_S
#	L820			
START T200 (T200value-DELTA)				
?TIMEOUT T200				
START T200				
?RNR	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE				
#				
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFC/S82/PL82_V32				
Identifier: DL82_V32				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.2). The IUT is expected to be in timer recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE ?I		I1_NC(V_R, V_S)		P=1 N_S=V_R N_R=V_S
#				
START T200				
?RNR	L820	RNR1_UR(V_R)	(P)	F=1
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
#				
#				
#				
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V33				
Identifier: DL82_V33				
Purpose: Verify that the IUT sends nothing in response to a I/P=0 received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE ! I		IO_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L820			
# +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# ?RNR			(I)	
# +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(I)	Fail a poll before expiry of T200
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V34				
Identifier: DL82_V34				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<V_R, N_R=V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_S:=V_R+1) ! I		II_NC(N_S, V_S)		P=1, V_R unchanged
# START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	RNR1_UR(V_R)	(P)	F=1
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S5/DL82_V35				
Identifier: DL82_V35				
Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S<V_R, N_R V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_S:-V_R+1) ! I		I0_NC(N_S, V_S)		P=0
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L820			
#				
#	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR				
#				
#			(I)	
#			(I)	
+DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S5/DL82_V36				
Identifier: DL82_V36				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL82_PREAMBLE +DL82_21_SETUP ! I				
#				
#				
START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L820	I1_NC(V_R, V_S)		P=1 (N_S=V_R, V_A<N_R<V_S)
#		RNR1_UC(V_R)	(P)	F=1
#				
#			(F)	
#			(F)	
#			1	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V37				
Identifier: DL82_V37				
Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL82_2I_SETUP !I		I0_NC (V_R, V_S)		P 0 (N_S=V_R, V_A<N_R<V_S)
#				
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L820			
#				
#				
#				
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L821	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE +DL_SEND_IFRAMES]]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V38				
Identifier: DL82_V38				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL82_2I_SETUP (N_S:=V_R+1) !I		I1_NC (N_S, V_S)		P=1 (N_S<V_R, V_A<N_R<V_S)
#				
#				
START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_SEND_IFRAMES]]	L820	RNR1_UR(V_R)	(P)	F=1
#				
[NOT(CAN_SEND_IFRAMES)]			(F)	
#			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V39 Identifier: DL82_V39 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL82_21_SETUP (N_S:=V_R+1) !I # # # (T200value-DELTA) START T200 ?TIMEOUT T200 START T200 ?RNR # # # +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR # # # +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)] #	L820 L821	IO_NC(N_S, V_S) RNR1_UC(V_R)	(I) (I) (I) (F)	P=0 (N_S<>V_R, V_A<N_R<V_S) Allow a poll due to expiry of T200 Fail a poll before expiry of T200 Test not run

Continued on next page

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V40 Identifier: DL82_V40 Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL82_11_SETUP !I # # # START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L820	I1_NC(V_R, V_S) RNR1_UR(V_R)	(P) (F) (F) I	P=1 (N_S=V_R, V_A=N_R<V_S) F=1 Test not run

Extended Comments: Q.921 Ref. 5.6.2.1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL52_V41 Identifier: DL82_V41 Purpose: Verify that the IUT sends nothing in response to a 1/P-0 (N_S=V_R, V_A=N-R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL82_LI_SETUP !! START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L820 L821	I0_NC (V_R, V_S) RNR1_UC (V_R)	(P)	P=0 (N_S=V_R, V_A=N-R<V_S) Allow a poll due to expiry of T200
?RNR +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	Fail a poll before expiry of T200 Test not run

Test Case Dynamic Behaviour					
Reference: LAIP/MFO/S82/DL82_V42 Identifier: DL82_V42 Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R V_A=N_R<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.					
Default :					
Behaviour Description	Label	Constraints Reference	V	Comments	
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL82_I1_SETUP (N_S::=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 (N_S<>V_R, V_A=N_R< V_S)	# #
START T200 ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L820	RNR1_UR(V_R)	(P)	F=1	#
			(F)		
			(F)		
			I		Test not run
#					
Extended Comments: Q.921 Ref. 5.8.1					

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V45				
Identifier: DL82_V45				
Purpose: Verify that the IUT sends a RNR/P=1 or retransmits I/P=1 after a timeout T200(RC<N200,V_A<V_S) in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/P=1 or I/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL82_I1_SETUP START Td ?RNR +DL82_VERIFICATION +DL_POSTAMBLE ?I	L820	RNR1_UC(V_R)	(P)	P=1
#				
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		I1_UC(V_S, V_R)	(P)	P=1
#				
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_V46				
Identifier: DL82_V46				
Purpose: Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC<N200,V_A<V_S) received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL82_PREAMBLE START Td ?RNR +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(T203_IMPLEMENTED)]	L820	RNR1_UC(V_R)	(P)	P=1
#				
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

Test Case Dynamic Behaviour					
Reference:LAPD/WFO/S82/DL82_V48 Identifier:DL82_V48 Purpose:Verify that the IUT sends a RR/F=0 in response to a CLEAR_OWN_BUSY received in Timer Recovery state (8.2). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=0. Default:					
#	Behaviour Description	Label	Constraints Reference	V	Comments
	[CAN_TEST_OWN_BUSY] +DL82_PREAMBLE <IUT! CLEAR_OWN_BUSY>				
	START Topr ?RR +DL80_VERIFICATION +DL_POSTAMBLE	L820	RR0_UR(V_R)	(P)	Clear own busy F=0
	?RR +DL80_VERIFICATION +DL_POSTAMBLE		RR1_UC(V_R)	(P)	P 1
	?RR +DL80_VERIFICATION +DL_POSTAMBLE		RR0_UC(V_R)	(P)	P=0
	?RNR GOTO L820 ?SABME +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820		RNR1_UC(V_R)		
	?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]		SABME1_UC	(I)	P=1
				(F)	
				(I)	
#				I	Test not run

[illegible]

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N02 Identifier:DL82_N02 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N03 Identifier:DL82_N03 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L820	RR1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case ID	Test Case Name	Test Case Description	Test Case Status	Test Case Version	Test Case Author	Test Case Date	Test Case Category	Test Case Priority	Test Case Severity	Test Case Complexity	Test Case Difficulty	Test Case Risk	Test Case Impact	Test Case Benefit	Test Case Cost	Test Case Effort	Test Case Time	Test Case Resources	Test Case Tools	Test Case Environment	Test Case Data	Test Case Results	Test Case Comments
TC001	Test Case 1	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC002	Test Case 2	Test Case Description	Fail	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC003	Test Case 3	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC004	Test Case 4	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC005	Test Case 5	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC006	Test Case 6	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC007	Test Case 7	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC008	Test Case 8	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC009	Test Case 9	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC010	Test Case 10	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC011	Test Case 11	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC012	Test Case 12	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC013	Test Case 13	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC014	Test Case 14	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC015	Test Case 15	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC016	Test Case 16	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC017	Test Case 17	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC018	Test Case 18	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC019	Test Case 19	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC020	Test Case 20	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High
TC021	Test Case 21	Test Case Description	Pass	1.0	John Doe	2023-10-27	Unit Test	High	Critical	Medium	High	High	High	High	High	High	High	High	High	High	High	High	High

Test Case Dynamic Behaviour				
Refer-nce: LAIR/REF-002/1682_N05	Behaviour Description	Label	Constraints Reference	V
Identifiers: N05	+DL12_PROBABLE (N_R): ((V_S+E)+1)) (REF) STATE T200 CSAME +DL11_VERIFICATION +DL_POSTAMBLE END	L820	REF1_NC(N_R) SABMEL_UC	P=1 (P)
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REF/P=1 (N_P V_S+E+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.	STATE T200 CSAME -DL51_VERIFICATION +DL_POSTAMBLE +DL12_UNEXPECTED GOTO L821 OTHERWISE +DL_POSTAMBLE TIMEOUT T1 +DL_POSTAMBLE +DL12_UNEXPECTED GOTO L820 OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE	L821	RNR1_UR(V_R) SABMEL_UC	P=1 (P)
Default:				(P)

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N06				
Identifier:DL82_N06				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_RV_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	REJ0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N07				
Identifier:DL82_N07				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_RV_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L820	REJ1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N08				
Identifier: DL82_N08				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/R=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L820	REJO_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/582/DL82_N10 Identifier:DL82_N10 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=((V_S+K)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	RNR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/582/DL82_N11 Identifier:DL82_N11 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L820	RNR1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SR2 DL82_N1; Identifier: DL82_N12 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RUP/P=0 (N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=(V_S+K+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Tr +DL_POSTAMBLE	L820	RNR0_NR(N_R) SABME1_UC	(F) (P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SR2 DL82_N13 Identifier: DL82_N13 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=(V_S+K+1)) !I # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820 L821	IL_NC(V_R, N_R) SABME1_UC RNR1_UR(V_R) SABME1_UC	(P) (P) (P) (P)	P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N14				
Identifier: DL82_N14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_R:=(V_S+K)+1)) ! I		I0_NC(V_R, N_R)		P=0
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	SABME1_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N15				
Identifier: DL82_N15				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_S:=V_R+1, N_R:=(V_S+K)+1)) ! I		I1_NC(N_S, N_R)		P=1
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L821 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	SABME1_UC	(P)	P=1
	L821	RNR1_UR(V_R) SABME1_UC	(P)	P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MIO/33?/DL82_N16 Identifier: DL82_N16 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<V_R, N_R:=((V_S+K)+1)) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE (N_S:=V_R+1, N_R:=((V_S+K)+1)) ! I # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	IO_NC(N_S, N_R) SABME1_UC	(P) (P) (F) (F)	P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MIO/38?/DL82_N17 Identifier: DL82_N17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N18 Identifier:DL82_N18 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !DISC_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DISC_TL1_NC SABME1_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N19 Identifier:DL82_N19 Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !UA_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	UA_TL1_NR SABME1_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N20 Identifier:DL82_N20 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE :DM_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	DM_TL1_NP SABME1_UC	(P)	P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/DL82_N21 Identifier:DL82_N21 Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE :FRMR_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	FRMR_TL1_NR SABME1_UC	(P)	P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N23 Identifier: DL82_N23 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !RNR_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	RNR_TL1_NC (V_S) SABME_UC	 (P) (F) (F)	 P=1

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic B-haviour				
Reference:LAPD/MFO/S82/SL82_N24 Identifier:DL82_N24 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ with excess length received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !REJ_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	REJ_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S82/SL82_N25 Identifier:DL82_N25 Purpose:Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !I_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	I_TL1_NC(V_R, V_S) SABME1_UC	 (P) (F) (F)	 P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N26				
Identifier: DL82_N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !UNDEF START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	UNDEF1_NC SABME1_UC	(P)	P=1 (F) (F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S82/DL82_N27				
Identifier: DL82_N27				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame in error(I field not permitted) received in Timer Recovery state (8.2). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL82_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L820 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L820	SABME_TL1_NC SABME1_UC	(P)	P=1 (F) (F)
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V04 Identifier: DL83_V04 Purpose: Verify that the IUT does not send additional I frames in Timer Recovery state (8.3) when V_S = V_A+K (window is closed). The IUT is expected to remain in Timer Recovery state (8.3). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL83_WC_SETUP				set window closed and timer req
#				
#				
START Td (N_S:=V_S-1) ?TIMEOUT Td	L830		(P)	IUT sends nothing
#				
+DL83_VERIFICATION +DL_POSTAMBLE ?RNR		RNR1_UC(V_R)	(P)	P=1, IUT polls w/ RNR/1
#				
+DL83_VERIFICATION +DL_POSTAMBLE ?I		I1_UC(N_S, V_R)	(P)	P=1, IUT retrains. last I
#				
+DL83_VERIFICATION +DL_POSTAMBLE ?I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#				
Extended Comments: Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V08 Identifier: DL83_V08 Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !SABME START T200 ?UA (V_S:=0, V_R:=0, V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	SABME1_NC UAL_UR	(P) (P)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD.MPC/83/DEL.V10 Identifier: L83_V10 Purpose: Verify that the IUT sends a UA/F (in response to a DISC/F-1 received in timer Recovery state (9.3). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0. UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE ?SAME ?START T200 ?UA (V_S:=0,V_R:=0,V_A:=-0) +DL70_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	SAME0_NC UA0_UR	(F) (F) (F) (F)	F=1 F=1
Extended Comments: 0.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD.MPC/83/DEL.V10 Identifier: DL83_V12 Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/F-1 received in timer Recovery state (6.3). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE ?DISC ?START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	DISC1_NC UA1_UR	(P) (F) (F)	P=1 F=1
Extended Comments: 0.921 Ref. 5.5.3.2				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V13 Identifier: DL83_V13 Purpose: Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.3). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	DISC0_NC UA0_UR	(P)	P=0 P=0
Extended Comments: Q.921 Ref. 5.5.3.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V14 Identifier: DL83_V14 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.3). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !DM START Topr ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE	L830	DM1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V15 Identifier:DL83_V15 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	DM0_NR SABME1_UC	(P)	F=0 P=1
Extended Comments:Q.921 Ref. 5.7.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V17 Identifier:DL83_V17 Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	FRMR_RR1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V20				
Identifier: DL83_V20				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RR		RR1_NC(V_S)		P=1 V_A<=N_R<=V_S
#				
START T200 ?RNR		RNR1_UR(V_R)	(P)	F=1
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830	L830			
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V21				
Identifier: DL83_V21				
Purpose: Verify that the IUT sends nothing in response to a RR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<=N_R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830			
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RNR			(I)	
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference:LAPD/MPO/S83/DL83_V22				
Identifier:DL83_V22				
Purpose:Verify that the IUT sends nothing in response to a RR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RR		RR1_NR(V_S)		F=1 V_A<=N_R R<=V_S
# START Td ?TIMEOUT Td +DL73_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE	L830		(P)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAFD/MFO/S83/DL83_V23				
Identifier: DL83_V23				
Purpose: Verify that the IUT sends nothing in response to a RR/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE				
!RR		RR0_NR(V_S)		F=0 V_A<=N_R<=V_S
START T200 (T200value-DELTA)	L830			
?TIMEOUT T200				
START T200				
?RNR	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL83_VERIFICATION				
+DL_POSTAMBLE				
+DL83_UNEXPECTED				
GOTO L831			(I)	
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200			(I)	
+DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE				
+DL83_UNEXPECTED				
GOTO L830				
?OTHERWISE				
+DL_POSTAMBLE				
			(F)	

extended Comments: 0.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V24				
Identifier: DL83_V24				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a REJ/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !REJ # START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	REJ1_NC(V_S) RNR1_UR(V_R)	(P) (F) (F)	P=1 V_A<=N_R<=V_S F=1
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V25				
Identifier: DL83_V25				
Purpose: Verify that the IUT sends nothing response to a REJ/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !REJ # START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR # # # +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR # # # +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE	L830 L831	REJ0_NC(V_S) RNR1_UC(V_R)	(P) (I) (I) (F)	P=0 V_A<=N_R<=V_S Allow a poll due to expiry of T200 Fail a poll before expiry of T200
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V26				
Identifier:DL83_V26				
Purpose:Verify that the IUT sends nothing in response to a REJ/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !REJ # START Td ?TIMEOUT Td +DL73_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE	L830	REJ1_NR(V_S)	(F)	F=1 V_A<=N_R<=V_S
Extended Comments:Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V27				
Identifier:DL83_V27				
Purpose:Verify that the IUT sends nothing in response to a REJ/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !REJ # START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830	REJ0_NR(V_S)		F=0 V_A<=N_R<=V_S
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	
Extended Comments:Q.921 Ref. 5.6.4				
			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V28				
Identifier: DL83_V28				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a RNR/P=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RNR		RNR1_NC(V_S)		P=1 V_A<=N_R<=V_S
#				
START T200 ?RNR	L830	RNR1_UR(V_R)	(P)	F=1
+DL87_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V29				
Identifier: DL83_V29				
Purpose: Verify that the IUT sends nothing in response to a RNR/P=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 V_A<=N_R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830 L831		(P)	Allow a poll due to expiry of T200
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(I)	
			(I)	
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE				
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAFD/MFO/28/2/PL83_V30 Identifier: DL83_V30 Purpose: Verify that the IUT sends nothing in response to a RNR/F=1 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Multiple Frame Established state (7.7). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE ?RNR		RNR_NR(V_S)		F=1 V_A<=N_R<=V_S
#				
START T200 ?TIMEOUT T200 START T3 ?RNR	L830	RNR_UC(V_R)	(P)	P=1
+DL87_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE ?RNR				
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE		RNR_UC(V_R)	(I)	P=1
#				
Extended Comments: Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional FAS verdict with a verification of the appropriate state.				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAFD/MFO/28/2/PL83_V31 Identifier: DL83_V31 Purpose: Verify that the IUT sends nothing in response to a RNR/F=0 (V_A <= N_R <= V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.7). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE ?RNR		RNR_NR(V_S)		F=0 V_A<=N_R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830			
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L831	RNR_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE		RNR_UC(V_R)	(I)	Fail a poll before expiry of T200
#				
#				
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V32				
Identifier:DL83_V32				
Purpose:Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE				P=1 N_S=V_R N_R=V_S
!!I		IL_NC(V_R, V_S)		
START T200				
?RNR	L830	RNR1_UR(V_R)	(P)	F=1
+DL83_VERIFICATION				
+DL_POSTAMBLE				
+DL83_UNEXPECTED				
GOTO L830				
?OTHERWISE				
+DL_POSTAMBLE				(F)
?TIMEOUT T200				(F)
+DL_POSTAMBLE				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/WFO/S83/DL83_V33				
Identifier:DL83_V33				
Purpose:Verify that the IUT sends nothing in response to a I/P=0 received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE				
! I				
START T200 (T200value-DELTA)	L830	T0_NC (V_R, V_S)		P=0 N_S=V_R N_R=V_S
?TIMEOUT T200				
START T200				
?RNR	L831	RNR1_UC (V_R)	(P)	Allow a poll due to expiry of T200
+DL83_VERIFICATION				
+DL_POSTAMBLE				
+DL83_UNEXPECTED				
GOTO L831			(I)	
?OTHERWISE				
+DL_POSTAMBLE			(I)	
?TIMEOUT T200				
+DL_POSTAMBLE				
?RNR		RNR1_UC (V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE				
+DL83_UNEXPECTED				
GOTO L830				
?OTHERWISE				
+DL_POSTAMBLE			(F)	

Extended Comments:O.921 Ref. 5.6.2.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V34				
Identifier: DL83_V34				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/f=1 (N_S <> V_R, N_R = V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_S:=V_R+1) !!		I1_NC(N_S, V_R)		P=1
#				
START T200 ?RNR	L830	RNR1_UC(V_R)	(P)	F=1
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V35				
Identifier: DL83_V35				
Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S <> V_R, N_R = V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_S:=V_R+1) !!		I0_NC(N_S, V_R)		P=0
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830			
	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
			(I)	
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V37 Identifier: DL83_V37 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N.S = V_R V_A < N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL83_2I_SETUP !I START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR </pre>	L830	IQ_NC (V_R, V_S)	(P)	P=0 (N.S=V_R, V_A<N_R<V_S)
	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
			(F)	
			I	Test not run
[NOT(CAN_SEND_IFRAMES)]				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V38				
Identifier:DL83_V38				
Purpose:Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S <> V_R V_A < N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL83_2I_SETUP ! I (N_S::=V_R+1)		I1_NC(N_S, V_S)		P=1 (N_S<>V_R, V_A<N_R<V_S)
#				
#				
START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L830	RNR1_UR(V_F)	(F)	F=1
#				
			(F)	Test not run
			(F)	
			I	
Extended Comments:Q.921 Ref. 5.8.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_V39				
Identifier:DL83_V39				
Purpose:Verify that the IUT sends nothing in response to a I/P=0 (N_S <> V_R V_A < N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL83_2I_SETUP ! I (N_S::=V_R+1)		I0_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A<N_R<V_S)
#				
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L830 L831	 RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#			(I)	
#			(I)	
			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	Test not run
#			I	
Extended Comments:Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V40				
Identifier: DL83_V40				
Purpose: Verify that the IUT sends a RNR/F.1 in response to a I/P=1 (N_S = V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F.1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL83_1I_SETUP !!		IL_NC(V_R, V_S)		P=1 (N_S=V_R, V_A=N_R< V_S)
START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L830	RNR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.6.2.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V41				
Identifier: DL83_V41				
Purpose: Verify that the IUT sends a nothing in response to a I/P=0 (N_S = V_R V_A = N_R < V_S) received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL83_1I_SETUP !!		IO_NC(V_R, V_S)		P=0 (N_S=V_R, V_A=N_R< V_S)
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L830			
	L831	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RNR		RNR1_UC(V_R)	(I)	
			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.6.2.2

Test Case Dynamic Behaviour				
Reference: LAI2/MF03/261/DL83_V42 Identifier: DL83_V42 Purpose: Verify that the IUT sends a RNR/F=1 in response to a J/F=1 (N_S <> V_R, V_A = N_R < V_C) received in Timer Recovery state (6.3). The IUT is expected to be in Timer Recovery state (6.4) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL83_I1_SETUP ! I (N_S := V_R+1) START T200 ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L830	I1_NC(N_S, V_S)	(F)	P=1 (N_S<>V_R, V_A=N_R <V_S)
			(F)	
			(F)	
			I	Test not run

Test Case Dynamic Behaviour				
Reference: LAID-MFO-G83/DI33_V42 Identifier: DLSA_V43 Purpose: Verify that the IUT sends nothing in response to an I/P=0 (N.S. \leftrightarrow V_R V_A = N_R \times V_S) received in Timer Recovery state (8.3) . The IUT is expected to be in Timer Recovery state (8.3) after sending nothing.				
Default:	Behaviour Description	Label	Constraints Reference	V
#	+DL83_PREAMBLE			
#	!! (N_S:=V_R+1)		10_NC(N_S, V_S)	P=0 (N_S<V _R, V_A=N_R <V_S)
	START T200 (T200value-DELTA)	L830		
	?TIMEOUT T200			
	START T200			
	?RNR	L831	RNR_UC(V_R)	(F) Allow a poll due to expiry of T200
	+DL83_VERIFICATION			
	+DL_POSTAMBLE			(1)
	+DL83_UNEXPECTED			
	GOTO L831			
	?OTHERWISE			
	+DL_POSTAMBLE			
	?TIMEOUT T200			(1)
	+DL_POSTAMBLE			
	?RNR		RNR_UC(V_R)	(F) Fail a poll before expiry of T200
#				
#	+DL_POSTAMBLE			
#	+DL83_UNEXPECTED			
	GOTO L830			
	?OTHERWISE			
	+DL_POSTAMBLE			(F)

Extended Comments: 0 921 Ref 5 8 1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V44				
Identifier: DL83_V44				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a timeout T200 (RC = N200) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (RC::=1)				Timeout once in Preamble
#				
#				
[RC<N200] START Td ?RNR(RC::=RC+1) GOTO L830 +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L830			P=1
[RC=N200] START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L832 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L831	RNR1_UC(V_R)	(F)	
			(F)	
			(P)	P=1
	L832	SABME1_UC		
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_V45				
Identifier: DL83_V45				
Purpose: Verify that the IUT sends a RNR/P=1 or retransmits I/P=1 after a timeout T200 (RC < N200, V_A < V_S) in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/P=1 or I/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL83_I1_SETUP START Td ?RNR +DL83_VERIFICATION +DL_POSTAMBLE ?I	L830	RNR1_UC(V_R)	(P)	P=1
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		I1_UC(V_S, V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic P-1.V1.4.1				
Reference:LAHV/MFO/Dev/DL83_V46				
Identifier:DL83_V46				
Purpose:Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC < N200.VA - V.3) received in Timer Recovery state (6.3). The IUT is expected to be in Timer Recovery state (6.3) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(T203_IMPLEMENTED) +DL83_PREAMBLE START Td ?RNR +DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE (NOT(T203_IMPLEMENTED))	L830	RNR1_UC(V_R)	(P)	P=1
#				Test not run
Extended Comments:Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic P-1.V1.4.1				
Reference:LAHV/MFO/Dev/DL83_V48				
Identifier:DL83_V48				
Purpose:Verify that the IUT sends a RNR/P=0 in response to a CLEAR_WN_PDU received in Timer Recovery state (8.3). The IUT is expected to be in Timer Recovery state (8.1) after sending RNR/P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(CAR_TEST_OWN_RNR) +DL81_PREAMBLE +IUT(CLEAR_OWN_BUSY) START TdPR ?RNR +DL81_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL81_VERIFICATION +DL_POSTAMBLE ?RNR GOTO L830 ?CARME +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT TdPR +DL_POSTAMBLE (NOT(CAR_TEST_OWN_BUSY))	L830	RNR0_UC(V_R) RNR1_UC(V_R) RNR0_UC(V_R) RNR1_UC(V_R) SABME1_UC	(P) (P) (P) (I) (F) (I) 1	Clear own busy P=0 P=1 P=0 P=1 Test not run
Extended Comments:Q.921 Ref. 5.6.6				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N01 Identifier:DL83_N01 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R:=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RR1_NC(N_R) SABME1_UC RNR1_UC(V_R) SABME1_UC	 (P) (P) (F) (F) (F) (F)	 P=1 P=1 P=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N02 Identifier:DL83_N02 Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R:=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R:=(V_S+K+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED COTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L830	RRL_NR(N_R) SABME1_UC	 (P)	P-1 P-1
Default:				

LAPD Conformance Testing

Test Case Dynamic Behaviour					
Reference: LAID/MFO/S83/DL83_N04 Identifier: DL93_N04 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R - V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
<pre>+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DLS1_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DI_POSTAMBLE .TIMEOUT Td +DL_POSTAMBLE</pre>	L830	RR0_NR(N_R) SABME_UC	(P)	F=0 P=1	
			(F)		
			(F)		

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N05				
Identifier: DL83_N05				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Topr ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	REJ1_NC(N_R) SABME1_UC RNR1_UR(V_R) SABME1_UC	 (P) (P) (F) (F) (F) (F)	 P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N06				
Identifier: DL83_N06				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	REJ0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S23/DL83_N07 Identifier: DL83_N07 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (3.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L830	REJ1_NR(N_R) SABME1_UC	(P) (P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N08 Identifier: DL83_N08 Purpose: Verify that the IUT sends a SABME/P=1 in response to a FF1/F=0 (N_R = V_S+K+1) received in Timer Recovery state (3.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L830	REJ0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N09				
Identifier:DL83_N09				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+k+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+k)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RNR1_NC(N_R) SABME1_UC RNR1_UR(V_R) SABME1_UC	 (F) (F) (F) (F) (F) (F)	P=1 P=1 F=1 P=1
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N10				
Identifier:DL83_N10				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+k+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+k)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RNR0_NC(N_R) SABME1_UC	 (P) (F) (F)	P=0 P=1
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LALD/WPO/S83/DL83_N11 Identifier: DL83_N11 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L830	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	P=1 P=1

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAID/MFO/S34/DL63_N12 Identifier: DL83_N12 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L830	RNR0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/UL83_N13				
Identifier: DL83_N13				
Purpose: Verify that the IUT sends a SABME/P 1 in response to a 1/P=1 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) ; I		I1_NC(V_R, N_R)		P=1
#				
START T200				
?SABME	L830	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE				
?RNR				
START Topr				
?SABME	L831	RNR1_UR(V_R)	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE		SABME1_UC	(P)	P=1
+DL83_UNEXPECTED GOTO L831				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT Topr				
+DL_POSTAMBLE				
+DL83_UNEXPECTED GOTO L830				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/UL83_N14				
Identifier: DL83_N14				
Purpose: Verify that the IUT sends a SABME/P 1 in response to a 1/P=0 (N_S = V_R, N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_R := ((V_S+K)+1)) ; I		I0_NC(V_R, N_R)		P=0
#				
START T200				
?SABME	L830	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE				
+DL83_UNEXPECTED GOTO L830				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N15 Identifier: DL83_N15 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S <> V_R, N_R = V_S+K+1) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE (N_S::=V_R+1, N_R::=((V_S+K)+1)) !I # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L831 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	!I_NC(N_S, N_R) SABME1_UC RNR1_UC(V_R) SABME1_UC	(F) (F) (F) (F) (F) (F) (F)	P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N17				
Identifier:DL83_N17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N18				
Identifier:DL83_N18				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !DISC_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	DISC_TL1_NC SABME1_UC	 (P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SS3/PLR/N19 Identifier: DL83_N19 Purpose: Verify that the IUT sends a SABME/P=1 in response to a JA frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !UA_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	UA_TL1_NR SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SS3/OL83_N20 Identifier: DL83_N20 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !DM_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	DM_TL1_NR SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N21				
Identifier: DL83_N21				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !FRMR_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	FRMR_TL1_NR SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N22				
Identifier: DL83_N22				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RR_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RR_TL1_NC (V_S) SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N23				
Identifier:DL83_N23				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !RNR_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	RNR_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N24				
Identifier:DL83_N24				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !REJ_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	REJ_TL1_NC (V_S) SABME1_UC	 (P) (F) (F)	 P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N25				
Identifier:DL83_N25				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !I_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	I_TL1_NC(V_R, V_S) SABME_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S83/DL83_N26				
Identifier:DL83_N26				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !UNDEF START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	UNDEF1_NC SABME_UC	(P)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S83/DL83_N27				
Identifier: DL83_N27				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame in error (I field not permitted) received in Timer Recovery state (8.3). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL83_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L830 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L830	SABME_TL1_NC SABME_UC	(P) (F) (F)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V01				
Identifier: DL84_V01				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_SABME] +DL84_PREAMBLE <IUT!SABME> # # #				Initiate Link Establishment Request P=1
START Topr (T200value*N200) ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RR GOTO L840 +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)] #	L840	SABME_UC RR1_UC(V_R)	(P) (F) (F) I	Test not run
Extended Comments: Q.921 Ref. 5.5.1.2 In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T200*N200 seconds.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V04				
Identifier:DL84_V04				
Purpose:Verify that the IUT does not send additional I Frames in Timer Recovery state (8.4) when V_S=V_A+K (window is closed) The IUT is expected to remain in Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL84_WC_SETUP				
#				set window closed and timer req
#				
START Td ?TIMEOUT Td +DL84_VERIFICATION +DL_POSTAMBLE	L840		(P)	IUT sends nothing
#				
?RR		RR1_UC(V_R)	(P)	P=1, IUT Polls w/ RR/1
#				
+DL84_VERIFICATION +DL_POSTAMBLE				
? I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
+DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE				
+DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run

Extended Comments:Q.921 Ref. 5.6.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SA4/DL84_V08				
Identifier: DL84_V08				
Purpose: Verify that the IUT sends a UA/P=1 in response to a SABME/P=1 received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	SABME1_NC UA1_UR	(P)	P=1 F=1
#				
Extended Comments: Q.921 Ref. 5.5.2				

4 Abstract Test Suite - Part I

1721

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SA4/DL84_V10				
Identifier: DL84_V10				
Purpose: Verify that the IUT sends a UA/P=0 in response to a SABME/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	SABME0_NC UA0_UR	(P)	P=0 F=0
#				
Extended Comments: Q.921 Ref. 5.5.2				

4 Abstract Test Suite - Part I

1722

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V12				
Identifier:DL84_V12				
Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.4). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !DISC START T200 ?UA	L840	DISC1_NC UA1_UR	(P)	P=1 F=1
#				
Extended Comments:Q.921 Ref. 5.5.3.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V13				
Identifier:DL84_V13				
Purpose:Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !DISC START T200 ?UA	L840	DISC0_NC UA0_UR	(P)	P=0 F=0
#				
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V14 Identifier: DL84_V14 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE :DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	DM1_NR SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments: iQ. 921 Ref. 5.7.1				

Extended Comments:Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour			
Behaviour Description	Label	Constraints Reference	V
Reference: LAPD/MFO/S84/DL84_V15 Identifier: DL84_V15 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:			
+DL84_PREAMBLE :DM START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	DM0_NR SABME1_UC	F=0 P=1 (P) (F) (F)

Extended Comments: Q.921 Ref. 5.7.1

Extended Comments:Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V17				
Identifier:DL84_V17				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	FRMR_RR1_NR SABME1_UC	(F) (F) (F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V20				
Identifier:DL84_V20				
Purpose:Verify that the IUT sends a RR/F=1 in response to a RR/P=1 (V_A<=N R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR # START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RR1_NC (V_S) RR1_UR (V_R)	 (P) (F) (F)	P=1 V_A<=N_ R<=V_S F=1
Extended Comments:Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V21				
Identifier: DL84_V21				
Purpose: Verify that the IUT sends nothing in response to a RR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L840			
#	L841	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
			(I)	
		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V22				
Identifier: DL84_V22				
Purpose: Verify that the IUT sends nothing in response to a RR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR		RR1_NR(V_S)		F=1 V_A<=N_R<=V_S
# START Td ?TIMEOUT Td	L840		(P)	
#				
+DL70_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V23 Identifier: DL84_V23 Purpose: Verify that the IUT sends nothing in response to a RR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR		RR0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L840		(P)	Allow a poll due to expiry of T200
# +DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR	L841	RR1_UC(V_R)		
# +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE			(I)	
#		RR1_UC(V_R)	(I)	Fail a poll before expiry of T200
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V24 Identifier: DL84_V24 Purpose: Verify that the IUT sends a RR/P=1 in response to a REJ/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.0) after sending RR/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !REJ		REJ1_NC(V_S)		P=1 V_A<=N_R<=V_S
# START T200 ?RR +DL80_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RR1_UR(V_R)	(P)	F=1
#			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SS4/DL84_V25				
Identifier: DL84_V25				
Purpose: Verify that the IUT sends nothing in response to a REJ.P=0 (V_A=N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !REJ		REJ0_NC(V_S)		P=0 V_A<=N_R<=V_S
#				
START T200 (T200value-DELTA)	L840			
?TIMEOUT T200				
START T200	L841	RR1_UC(V_R)	(P)	Allow a poll time to expiry of T200
RR				
#				
#				
#				
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 -DL_POSTAMBLE				
?RR		RR1_UC(V_R)	(I)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SS4/DL84_V26				
Identifier: DL84_V26				
Purpose: Verify that the IUT sends nothing in response to a REJ/P=1 (V_A=N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !REJ		REJ1_NR(V_S)		F=1 V_A<=N_R<=V_S
#				
START Td				
?TIMEOUT Td	L840		(P)	
#				
+DL70_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V27				
Identifier: DL84_V27				
Purpose: Verify that the IUT sends nothing in response to a REQ/F=0 (V_A<N_R<=V_S) received in timer Recovery state (8.4). The IUT is expected to be in timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR		REQ0_NR(V_S)		F=0 V_A<N_R<=V_S
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L840			
+DL80_VERIFICATION +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L841	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
?RR			(I)	
+DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V28				
Identifier: DL84_V28				
Purpose: Verify that the IUT sends a RR/F=1 in response to a RNR/P=1 (V_A<N_R<=V_S) received in timer Recovery state (8.4). The IUT is expected to be in timer Recovery state (8.4) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RNR		RR1_NC(V_S)		P=1 V_A<N_R<=V_S
START T200 ?RR	L840	RR1_UR(V_R)	(P)	F=1
+DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MF0/564/LL84_V29				
Identifier: DL84_V29				
Purpose: Verify that the IUT sends nothing in response to a PRR/P=0 (V_A=N R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 V_A=N R<V_S
#				
START T200 (T200value-DELTA)	L840			
?TIMEOUT T200				
START T200	L841	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
!RR				
#				
#				
#				
+DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L841				
?OTHERWISE			(I)	
+DL_POSTAMBLE				
?TIMEOUT T200			(I)	
+DL_POSTAMBLE				
?RR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MF0/564/LL84_V30				
Identifier: DL84_V30				
Purpose: Verify that the IUT sends nothing in response to a RNR/F=1 (V_A=N R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Multiple Frame Established state (7.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RNR		RNR1_NR(V_S)		P=1 V_A=N R<V_S
#				
START T200				
?TIMEOUT T200	L840			
START Td				
?RR		RNR1_UC(V_R)	(P)	P=1
+DL84_VERIFICATION +DL_POSTAMBLE				
?OTHERWISE			(I)	
+DL_POSTAMBLE			(I)	
?TIMEOUT Td				
+DL_POSTAMBLE				
?RR		RNR1_UC(V_R)	(I)	P=1
+DL_POSTAMBLE				
+DL84_UNEXPECTED				
GOTO L840				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				
At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V31				
Identifier:DL84_V31				
Purpose:Verify that the IUT sends nothing in response to a RNR/F=0 (V_A<=N_R=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RNR		RNR0_NR(V_S)		F=0 V_A<=N_R<=V_S
#	L840			
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L841	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
#				
#				
#				
+DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V32				
Identifier:DL84_V32				
Purpose:Verify that the IUT sends a RR/F=1 in response to a I/P=1 received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !I (V_R:=V_R+1)		IL_NC(V_R, V_S)		P=1 N_S=V_R N_R=V_S
#	L840	RR1_UR(V_R)	(P)	F=1
START T200 ?RR +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/384/DL=4_V33				
Identifier: DL84_V33				
Purpose: Verify that the IUT sends a RR/F=0 in response to a I/P=0 received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE ! I (V_R:=V_R+1)		I0_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 ?RR +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L841	RR0_UR(V_P)	(F)	F=0
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/583/DL84_V34				
Identifier: DL84_V34				
Purpose: Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S>V_F, N_R V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1
# START T200 ?REJ	L840	REJ1_UR(V_R)	(P)	F=1
+DL85_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V35				
Identifier: DL84_V35				
Purpose: Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<V_R, N_R=V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_S::=V_R+1) ! I		I0_NC(N_S, V_S)		P=0
#				
START T200 ?REJ	L840	REJ0_UR(V_R)	(P)	F=0
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V36				
Identifier: DL84_V36				
Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL84_2I_SETUP ! I (V_R::=V_R+1)		I1_NC(V_R, V_S)		P=1 (N_S=V_R, V_A<N_R<V_S)
#				
START T200 ?RR +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]	L840	RR1_UR(V_R)	(P)	F=1
#			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO, S=4/DL84_V37				
Identifier: DL84_V37				
Purpose: Verify that the IUT sends a RR/F=0 in response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL84_21_SETUP !T (V_R:=V_R+1)		I0_NC(V_R, V_S)		F=0 (N_S=V_R, V_A<N_R<V_S)
START T200 !F	L=40	RR_TUR(V_R)	(P)	F=0
+DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F) (F) I	 Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V38				
Identifier: DL84_V38				
Purpose: Verify that the IUT sends a REJ/F=1 in response to a I/P=1 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL84_21_SETUP (N_S:=V_R+1) !I		I1_NC(N_S, V_S)		P=1 (N_S=V_R, V_A<N_R<V_S)
START T200 !F	L840	REJ_TUR(V_R)	(I)	F=1
+DL85_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F) (F) I	 Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V39 Identifier: DL84_V39 Purpose: Verify that the IUT sends a REJ/F=0 in response to a I/P=0 (N_S<V_R V_A<N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL84_2I_SETUP (N_S:=V_R+1) ! I		I0_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A<N_R<V_S)
#				
#				
START T200 ?REJ	L840	REJO_UR(V_R)	(F)	F=0
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]				
#				
Extended Comments: Q.921 Ref. 5.8.1				
			I	Test not run

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V40 Identifier: DL84_V40 Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S=V_R V_A=N_R<V_S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL84_1I_SETUP ! I (V_R:=V_R+1)		I1_NC(V_R, V_S)		P=1 (N_S=V_R, V_A=N_R<V_S)
#				
#				
START T200 ?RR	L840	RR1_UR(V_R)	(P)	F=1
+DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]				
#				
Extended Comments: Q.921 Ref. 5.6.2.1				
			I	Test not run

LAPD Conformance Testing

Test Case Identifier Behaviour				
<p>Reference: LAPD/MQ/S64/DL84_V41</p> <p>Identifier: DL84_V41</p> <p>Purpose: Verify that the IUT sends a FR/F=0 or I in response to a I/F=0 (N_S_V_R_V_A_N_F=V_P) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending FR/F=0.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL84_I1_SETUP ! I(V_R::=V_R+1) START T200 ?FR +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L840	<p>I0_NC(V_R, V_S)</p> <p>REFL_UR(V_R)</p>	(P)	S7.0
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Identifier Behaviour				
<p>Reference: LAPD/MQ/S64/DL84_V41</p> <p>Identifier: DL84_V41</p> <p>Purpose: Verify that the IUT sends a REJ/F=1 in response to a I/F=1 (N_S_V_R_V_A_N_F=V_P) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.5) after sending REJ/F=1.</p> <p>Default:</p>				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL84_I1_SETUP (N_S::=V_R+1) '1 START T200 ?REJ +DL85_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L840	<p>IL_NC(N_S, V_S)</p> <p>REFL_UR(V_R)</p>	(P)	P=1 (N_S<V_R, V_A_N_R<V_S)
#			(F)	F=1
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S84/DL84_V44					
Identifier:DL84_V44					
Purpose:Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.4). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
# #	Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (RC::=1)	[RC<N200] START Td ?RR(RC::=RC+1) GOTO L840 +DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [RC=N200] START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L842 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L840 L841	RRL_UC(V_R)	(F) (F) (P)	timeout once in preamble P=1

Extended Comments:Q.921 Ref. 5.6.7

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V45 Identifier: DL84_V45 Purpose: Verify that the IUT sends a RR/P=1 after a timeout T200 (RC-N200.V.AV.S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL84_I1_SETUP START Td ?RR +DL84_VERIFICATION +DL_POSTAMBLE ?I +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_SEND_A_IFRAME] #	L840	RR1_UC(V_R)	(F)	P=1
		I1_UC(V_S, V_R)	(P)	I=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_V46 Identifier: DL84_V46 Purpose: Verify that the IUT sends a RR/P=1 in response to a timeout T200 (RC-N200.V.AV.S) received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=1 Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL84_PREAMBLE START Td ?RR +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE {NOT(T203_IMPLEMENTED)} #	L840	RR1_UC(V_F)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.6.7				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_V47				
Identifier:DL84_V47				
Purpose:Verify that the IUT sends a RNR/P=1 in response to a SET_OWN_BUSY received in Timer Recovery state (8.4). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL84_PREAMBLE <IUT! RNR> START Topr ?RNR +DL86_VERIFICATION +DL_POSTAMBLE ?RNR +DL86_VERIFICATION +DL_POSTAMBLE ?RR GOTO L840 +DL84_UNEXPECTED GOTO L840 ?SABME +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L840	RNR1_UC(V_R) RNR0_UR(V_R) RR1_UC(V_R) SABME1_UC	(P) (P) (I) (F) (F)	P=1 F=0 P=1 P=1
#			I	Test not run

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N03				
Identifier: DL84_N03				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+1) received in Timer Recovery state (8.4). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := (V_S+1)+1) IFR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RR0_NC(N_R) SABME1_UC	(F) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F)	F=0 F=1
Extended Comments: Q.931 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N03				
Identifier: DL84_N03				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_F = V_S+1) received in Timer Recovery state (8.4). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := (V_S+1)+1) IFR START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L840	RR1_NR(N_R) SABME1_UC	(F) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F)	F=1 P=1
Extended Comments: Q.931 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N05 Identifier: DL84_N05 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	REJ_NC(N_R)	(P)	P=1
	L841	RR1_UR(V_R)	(P)	P=1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/US84_N06				
Identifier: DL84_N06				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := (V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	REJ0_NC(N_R) SABME1_UC	 (F) (F) (F)	 P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N07				
Identifier: DL84_N07				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a PEJ/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := (V_S+K)+1)) !REJ START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE	L840	REJ1_NR(N_R) SABME1_UC	 (F) (F) (F)	 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

[illegible]

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S84/DL84_N10				
Identifier: DL84_N10				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RNR0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S84/DL84_N11 Identifier: DL84_N11 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (NR = V-S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R:=((V-S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L840	RNR1_NR(N_R) SABME1_UC	(P) (F) (F)	F=1 P=1

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/DL84_N13				
Identifier:DL84_N13				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R:=V_S+1) ! I (V_R:=V_R+1)		IL_NC(V_R, N_R)		P=1
#				
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L840	SABME1_UC	(P)	P=1
?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE				
+DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
+DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L841	SABME1_UC	(P)	P=1
			(F)	
			(F)	
			(F)	
			(F)	

extended Comments:O.92(Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S84/DL84_N14				
Identifier: DL84_N14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=P=0 (N_S=V_R, N_R=V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_R::=((V_S+K)+1)) ! I		I0_NC(V_R, N_R)		P=0
#				
START T200				
?SABME				
+DL51_VERIFICATION	L840	SAPMEL_UC	(P)	P=1
+DL_POSTAMBLE				
+DL84_UNEXPECTED				
GOTO L840				
?OTHERWISE				
+DL_POSTAMBLE				(F)
?TIMEOUT T200				
+DL_POSTAMBLE				(F)

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S64/DL64_N15				
Identifier: DL64_N15				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<>V_R, N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL64_PREAMBLE (N_S::=V_R+1, N_R::=(V_S+K)+1)) ; I #				
START T200 ?SABME *DL51_VERIFICATION +DL_POSTAMBLE ?PEJ START Td ?SABME (N_S::=V_R+1, N_R::=(V_S+K)+1)) +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L841 ?OTHERWISE ?TIMEOUT Td +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE ?TIMEOUT T200 +DL_POSTAMBLE	L840	IL_NC(N_S, N_R) SABME_UC REJL_UR(V_R) SABME_UC	P=1 P=1 P=1 P=1	
	L841	SABME_UC	(P)	(F)
			(P)	(F)
			(F)	(F)
			(F)	(F)

extended Comments: I.Q. 921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S84/S84_DL84_N16				
Identifier:DL84_N16				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<>V_R, N_R = V_S+K+1) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE (N_S::=V_R+1,N_R::=((V_S+K)+1)) !!		I0_NC(N_S, N_R)		P=0
#				
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L840	SABME1_UC	(P)	P=1
?REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE		REJ0_UR(V_R)		P=0
+DL84_UNEXPECTED GOTO L841 ?OTHERWISE +DL_POSTAMBLE	L841	SABME1_UC	(P)	P=1
?TIMEOUT Td +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE			(F)	
?TIMEOUT T200 +DL_POSTAMBLE			(F)	
+DL_POSTAMBLE			(F)	
+DL_POSTAMBLE			(F)	

Extended Comments:0.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N17 Identifier: DL84_N17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1

Extended Comments: Q.921 Ref. 5.7.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MFO/S84/0184_N13				
Identification: 0184_N13				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DISC/F=1 frame, with excess length, received in timer recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Configuration Reference	V	Comments
+DL84_PREAMBLE +DISC/F=1 +START T300 +SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 +OTHERWISE +DL_POSTAMBLE +TIMEOUT T300 +DL_POSTAMBLE	L840	DISC/F=1 SABME/P=1	(P)	P=1
Extended Comments: 0.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD-MFO/S84/0184_P19				
Identification: 0184_P19				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a UA/F=1 frame, with excess length, received in timer recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Configuration Reference	V	Comments
+DL84_PREAMBLE +DISC/F=1 +START T300 +SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 +OTHERWISE +DL_POSTAMBLE +TIMEOUT T300 +DL_POSTAMBLE	L840	UA/F=1 SABME/P=1	(P)	P=1
Extended Comments: 0.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour			
Reference: LAPD/MFO/S84/DL84_N21 Identifier: DL84_N21 Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V Comments
+DL84_PREAMBLE !FRMR_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	FRMR_TL1_NR SABME1_UC	(P) (F) (F)
Extended Comments: Q.921 Ref. 5.7.1			

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N22				
Identifier: DL84_N22				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RR_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RR_TL1_NC (V_S) SABME1_UC	(P)	P=1 (F) (F)
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N23				
Identifier: DL84_N23				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/I=1 frame, with excess length, received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !RNR_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RNR_TL1_NC (V_S) SABME1_UC	(P)	P=1 (F) (F)
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S84/DL84_N24				
Identifier: DL84_N24				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a REJ/P-1 frame, with excess length, received in timer recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE ?REJ_TL		REJ_TL_NC (V_S)		
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	SABME1_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAIRD/WFO/S84/DL84_N25				
Identifier:DL84_N25				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE !I_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	I_TLI_NC (V_R, V_S) SABME1_UC	(P)	P=1
Extended Comments:O.921 Ref. 5.7.1				

Test Case Dynamic Behaviour			
Behaviour Description	Label	Constraints Reference	V
+DL84_PREAMBLE !UNDEF START T200 ?SAEME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	UNDEF_NC SABMEL_UC	 (P)
			(F)
			(F)

Default:

Purpose: Verify that the IUT sends a SABME/P-1 in response to an undefined command frame received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.

Reference: LAPD/MPO/SA4/DL84_N2c
Identifier: DL84_N26

Extended Comments: Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour			
Reference: LAID/INFO/S54/DL84_N27 Identifier: DL84_N37 Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not permitted) received in Timer Recovery state (8.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V
+DL84_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	SABME_TL1_NC SABME1_UC	 (P) (F) (F)
#			P=1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_V01 Identifier:DL85_V01 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_SABME] +DL85_PREAMBLE <IUT!SABME> # # START Topr (T200value*N200) ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RR GOTO L850 +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)] #	L850	SABME1_UC SABME1_UC RR1_UC (V_R)	(P) (F) (F) I	Initiate Link Establishment P=1 Test not run
Extended Comments:Q.921 Ref. 5.5.1.2 In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T200*N200 seconds.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_V03 Identifier:DL85_V03 Purpose:Verify that the IUT does not sent additional I frames in Timer Recovery state (8.5) even if V_S < V_A+K. The IUT is expected to remain in Timer Recovery state (8.5). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL85_PREAMBLE [I_CNT < K] <IUT!I> # # START Topr ?TIMEOUT Topr +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE [I_CNT>=K] +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] #	L850		(P) (F) (I) I	V_A=0 Init one DL Data Request Window closed Test not run
Extended Comments:Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V04				
Identifier: DL85_V04				
Purpose: Verify that the IUT sends nothing in response to a I (V_SV_A+K) in queue in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_1FRAMES] +DL70_PREAMBLE +DL85_MC_SETUP				set window closed and timer reset
#				
#				
START Td ?TIMEOUT Td	L850		(P)	IUT sends nothing
#				
+DL85_VERIFICATION +DL_POSTAMBLE ?RR		RR1_UC(V_R)	(P)	P=1, IUT polls w/ RR/1
#				
#				
+DL85_VERIFICATION +DL_POSTAMBLE ?I		IO_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
#				
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE [NOT (CAN_SEND_1FRAMES)]			(F)	
#			I	Test not run
Extended Comments: O.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V08				
Identifier: DL85_V08				
Purpose: Verify that the IUT sends a UA/P=1 in response to a SABME/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.0) after sending UA/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !SABME START T200 ?UA(V_S::=0, V_R::=0, V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	SABME1_NC UA1_UR	(F) (F)	P=1 F=1
Extended Comments: O.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_V10				
Identifier:DL85_V10				
Purpose:Verify that the IUT sends a UA/F=0 in response a SABME/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !SABME START T200 ?UA(V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	SABME0_NC UA0_UR	(P)	P=0 F=0
Extended Comments:Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_V12				
Identifier:DL85_V12				
Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	DISC1_NC UA1_UR	(F)	P=1 F=1
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S85/DL85_V13				
Identifier: DL85_V13				
Purpose: Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !DISC START T200 ?UA +DL40_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	DISC0_NC UA0_UR	(P)	P=0 F=0
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S85/DL85_V14				
Identifier: DL85_V14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !DM START Topr ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE	L850	DM1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V15				
Identifier: DL85_V15				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !DM START Topr ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE	L850	DM0_NR SABME1_UC	(P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V17				
Identifier: DL85_V17				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !FRMR_FR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800	FRMR_RR1_NR SABME1_UC	(P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V20				
Identifier: DL85_V20				
Purpose: Verify that the IUT sends a RR/F=1 in response to a RR/P=1 (V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RR		RR1_NC(V_S)		P=1 V_A<N_R<V_S
#				
START T200 ?RR	L850	RR1_UR(V_R)	(P)	F=1
+DL81_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V21				
Identifier: DL85_V21				
Purpose: Verify that the IUT sends nothing in response to a RR/P=0 (V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<N_R<V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L850			
	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
			(I)	
?RR		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
			(F)	

Extended Comments: Q.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V22				
Identifier: DL85_V22				
Purpose: Verify that the IUT sends nothing in response to a RR/F=1 (V_A<=N, R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RR				F=1 V_A<=N_ R<=V_S
# START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE	L850	RR1_NR (V_S)	(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V23				
Identifier: DL85_V23				
Purpose: Verify that the IUT sends nothing in response to a RR/F=0 (V_A<=N, R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RR		RR0_NR (V_S)		F=0 V_A<=N_ R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L850			
	L851	RR1_UC (V_R)	(P)	Allow a poll due to expiry of T200
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR			(I)	
			(I)	
		RR1_UC (V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL85_V24				
Identifier: DL85_V24				
Purpose: Verify that the IUT sends a RR/P=1 in response to a REJ/P=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1) after sending RR/F 1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !REJ		REJ1_NC(V_S)		P=1 V_A<N_R<V_S
#				
START T200				
!RR	L850	RR1_UC(V_R)	(P)	F 1
+DL81_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850				
?OTHERWISE				(F)
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				(F)
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S81/DL85_V25				
Identifier: DL85_V25				
Purpose: Verify that the IUT sends nothing in response to a REJ/P 0 (V_A<N_R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !REJ		REJ0_NC(V_S)		P=0 V_A<N_R<=V_S
#				
START T200 (T200value DELTA)				
?TIMEOUT T200	L850			
START T200				
!RR	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L851				
?OTHERWISE				(I)
+DL_POSTAMBLE				(I)
?TIMEOUT T200				
+DL_POSTAMBLE				
!RR		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850				
?OTHERWISE				
+DL_POSTAMBLE				(F)
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V26				
Identifier: DL85_V26				
Purpose: Verify that the IUT sends nothing in response to a REJ/F=1 (V_A<=N, R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !REJ		REJ1_NR (V_S)		F=1 V_A<=N R<=V_S
#				
START Td ?TIMEOUT Td +DL71_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE	L850		(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V27				
Identifier: DL85_V27				
Purpose: Verify that the IUT sends nothing in response to a REJ/F=0 (V_A<=N, R<=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !REJ		REJ0_NR (V_S)		F=0 V_A<=N R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L850			
#				
#				
#				
+DL81_VERIFICATION +DL_POSTAMBLE +DL81_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR	L851	RR1_UC (V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RR1_UC (V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/SS5/DL85_V28				
Identifier: DL85_V29				
Purpose: Verify that the IUT sends a RR/F=1 in response to a RR/F=1 (V_A<=N_R, V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RR		RNR1_NC(V_S)		P=1 V_A<=N_R R<=V_S
# START T200				
?RR	L850	RR1_UR(V_F)	(F)	F=1
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850				
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/SS5/DL85_V29				
Identifier: DL85_V29				
Purpose: Verify that the IUT sends nothing in response to a RNR/P=0 (V_A<=N_R, V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 (V_A<=N_R<=V_S)
# START T200 (T200value=LELTA) ?TIMEOUT T200 START T200	L850			
?RR	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851			(I)	
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RR		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
#				
#				
Extended Comments: Q.921 Ref. 5.6.5				
			(F)	

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V30				
Identifier: DL85_V30				
Purpose: Verify that the IUT sends nothing in response to a RNR/F=1 (V_A=N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in multiple frame established state (7.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RNR START T200 ?TIMEOUT T200 START Td ?RR +DL85_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RR +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE	L850	RNR1_NR(V_S)		F=1 V_A<=N_R<V_S
		RR1_UC(V_R)	(P)	P=1
			(I)	
			(I)	
		RR1_UC(V_R)	(I)	P=1
			(F)	
Extended Comments: Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V31 Identifier: DL85_V31 Purpose: Verify that the IUT sends nothing in response to a RNR/F=0 (V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) . Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RNR START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L850	RNR0_NR(V_S)		F=0 V_A<N_R<V_S
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE			(F)	

Extended Comments: O. 921 Ref. 5.6.5

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V32				
Identifier: DL85_V32				
Purpose: Verify that the IUT sends a RR/P=1 in response to a I/P=1 received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !! (V_R:=V_R+1)		I1_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 IF (V_A:=RR.N_R) +DL84_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L840	RR1_UR(V_R)	(T)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V33				
Identifier: DL85_V33				
Purpose: Verify that the IUT sends a RR/P=0 in response to a I/P=0 received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !! (V_R:=V_R+1)		I0_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 ?TIMEOUT T200 ?OTHERWISE +DL_POSTAMBLE	L850 L851	RR0_UR(V_R)	(P)	P=0
			(P)	P=1
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE		I1_NC(V_S, V_R)	(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V34 Identifier: DL85_V34 Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_S::=V_R+1) ! I		I1_NC(N_S, V_S)		P=1
#				
START T200 ?RR +DL85_VERIFICATION +DL_POSTAMBLE	L850	RR1_UR(V_R)	(P)	F=1
? I				
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		I1_UC(V_S, V_R)	(P)	P=1
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V35 Identifier: DL85_V35 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_S::=V_R+1) ! I		I0_NC(N_S, V_S)		P=0
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RR	L850			
#				
#				
#				
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
?RR				
#				
#				
#				
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S85/S85_V37 Identifier: DL85_V37 Purpose: Verify that the IUT sends a RR/P=0 in response to a I/P=0 (N_S-V_R_V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.4) after sending RR/P=0.				
Default:	Behaviour Description	Label	Constraints Reference	V
#	[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL85_21_SETUP !I (V_R: :=V_h+1)		I0_NC(V_R, V_S)	P=0 (N_S_V_R, V_A<N_R< V_S)
#	START T200 ?RR (V_A: :=RP_N_R) +DL84_VERIFICATION +DL_POSTamble +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTamble TIMEOUT T200 +DL_POSTamble [NOT (CAN_SEND_IFRAMES)]	L850	RR0_UR(V_R)	(P) F=0 (F) (F)
#				I Test not run

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V38 Identifier: DL85_V38 Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL85_2I_SETUP (N_S:=V_R+1) !! # # START T200 ?RR +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT (CAN_SEND_IFRAMES)] #	L850	I1_NC(N_S, V_S) RR1_UR(V_R)	(P) (F) (F) I	P=1 (N_S<>V_R, V_A<N_R<V_S) F=1 Test not run
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_V39 Identifier: DL85_V39 Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S<>V_R V_A<N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL85_2I_SETUP (N_S:=V_R+1) !! # # START T200 ?TIMEOUT T200 START T200 ?RR # # # +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR # # # +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE [NOT (CAN_SEND_IFRAMES)] #	L850 L851	I0_NC(N_S, V_S) RR1_UC(V_R)	(P) (I) (I) (F) (F) I	P=0 (N_S<>V_R, V_A<N_R<V_S) Allow a poll due to expiry of T200 Fail a poll before expiry of T200 Test not run
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAFL/WP/CRSS/DL-5_V41 Identifier: DL85_V41 Purpose: Verify that the IUT sends a RR/F=0 or I in response to a I/I=0 (N_SV_R_V_A_N_R_V_S) received in Timer Recovery state (S.5). The IUT is expected to be in Timer Recovery state (S.4) after sending FF/F=0.				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> {CAN_SEND_A_IFRAME} +DL71_FRAMELE +DL85_I1_SETUP +I(V_R:=V_R+1) # START T200 ERR +DL84_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 OTHERWISE +DL_POSTAMBLE TIMEOUT T200 +DL_POSTAMBLE {NOT(CAN_SEND_A_IFRAME)} # </pre>	L850	I0_NC(V_R, V_S)	(P)	S7.1
			(F)	
			(F)	
			I	Test not run

Extended Comments: 0.921 Ref. 5.6.2.2

Extended Comments:Q.921 Ref. 5.6.2.2

T-st Case Dynamic Behaviour				
Reference: LAPD/MFO/S65/DL85_V42				
Identifier: DL85_V42				
Purpose: Verify that the IUT sends a RR/F=1 in response to a I/P=1 (N_S<V_R, V_A=N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5) after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL85_1I SETUP (N_S:=V_R+1) ! I START T200 ?RR +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)] </pre>	L850	<p>! I_NC (N_S, V_S)</p> <p>RR_UR (V_R)</p>	<p>(P)</p> <p>(F)</p> <p>(F)</p> <p>I</p>	<p>P=1 (N_S<V_R, V_A=N_R<V_S)</p> <p>P=1</p> <p>Test not run</p>

Extended Comments:Q.921 Ref. 5.8.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S65/DL85_V43				
Identifier: DL85_V43				
Purpose: Verify that the IUT sends nothing in response to a I/P=0 (N_S->V_R V_A=N_R<V_S) received in Timer Recovery state (8.5). The IUT is expected to be in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL70_PREAMBLE +DL85_II_SETUP (N_S:=V_R+1) ! I		I0_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A=N_R <V_S)
START T200 (T200value-DELTA)				
?TIMEOUT T200 START T200 ?RR	L850			
+DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RR	L851	RR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE {NOT(CAN_SEND_A_IFRAME)}			(F)	
			I	Test not run

Continued on next page

Test Case Dynamic Behaviour
<p>Reference: LAPD/MFO/S85/DL85_V45</p> <p>Identifier: DL85_V45</p> <p>Purpose: Verify that the IUT sends a RR/P=1 or retransmit I/P=1 after a timeout T200(RC=N200, V_A=V_S) in Timer Recovery state (8.5).</p> <p>The IUT is expected to be in Timer Recovery state (8.5) after sending RR/P=1</p>

Purpose: Verify that the IUT sends a RR/P=1 or retransmit I/P=1 after a timeout T200(RC=N200,V_A<V_S) in Timer Recovery state (8.5).
 The IUT is expected to be in Timer Recovery state (8.5) after sending RR/P=1.

Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL85_I1_SETUP START Td ?RR +DL85_VERIFICATION +DL_POSTAMBLE	L850	RR1_UC(V_R)	(P)	P=1
# ?I +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		IL_UC(V_S, V_R)	(P)	P=1
			(F)	
			(F)	
#			I	Test not run

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S85/DL85_N01					
Identifier:DL85_N01					
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S&+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL85_PREAMBLE (N_R:=((V_S*K)+1)) !RR START T200 ?SABME +SLS1_VERIFICATION +DL_POSTAMBLE ?R START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE TIMEOUT Td ?TIMEOUT Td +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850 	RR1_NC(N_R) SABMEL_UC RR1_UR(V_R) SABMEL_UC	P=1 (F) (P) (P)	P=1 P=1 P=1 P=1	

Test Case: Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL\$5_PPREMBIE (N_R:= ((V_S+K)+1)) !PR START T200 ?SABME +DL\$1_VERIFICATION +DL_POSTAMBLE +DL\$5_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	RF0_NC(N_R) SABME1_UC	 (P)	P=0 P=1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N03				
Identifier: DL85_N03				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	RR1_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N04				
Identifier: DL85_N04				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	RR0_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_N05 Identifier:DL85_N05 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V.S.K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R::=((V.S.K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ERR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850 	REJ_NC(N_R) 	 	P=1
	L851	SABMEL_UC 	(P)	P=1
		RRI_UR(V_R)	(P)	P=1
		SABMEL_UC	(P)	P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_N06 Identifier:DL85_N06 Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	REJ0_NC(N_R) SABME1_UC	(P) (F) (F)	P=0 P=1

Extended Comments:Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N07 Identifier: DL85_N07 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N.R = V.S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N.R := ((V.S+K)+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	REJ1_NR(N_R) SABME1_UC	(P) (P) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N08 Identifier: DL85_N08 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N.R = V.S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N.R := ((V.S+K)+1)) !REJ START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	REJ0_NR(N_R) SABME1_UC	(P) (F) (F)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S85/Du85_N09					
Identifier:DL85_N09					
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL85_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ? START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	RNR1_NC (N_R)	(P)	P=1	
	L851	SABME1_UC	(P)	P=1	
		RRL_UR(V_P)	(F)	P=1	
		SABME1_UC	(P)	P=1	
			(F)		
			(F)		
			(F)		
			(F)		

Extended Comments:Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAID/MFO/S85/DL85, N10				
Identifier: DL85_N10				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P-1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	RNR_NC(N_R) SABME_UC	 (P)	P=0 P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N11				
Identifier: DL85_N11				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	RNR1_NR(N_R) SABME1_UC	(P) (P)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N12				
Identifier: DL85_N12				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L850	RNR0_NR(N_R) SABME1_UC	(P) (P)	F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N13				
Identifier: DL85_N13				
Purpose: Verify that the IUT sends a SABME/P-1 in response to a I/P=1 (N_S,V_R, N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_R := ((V_S+K)+1)) !! (V_R := V_R+1)		!!_NC(V_R, N_R)		P=1
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE	L850	SABME1_UC	(P)	P=1
?RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L851	REFL_HR(V, K) SABME1_UC	(P) (F) (F) (F) (F) (F)	F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N15 Identifier: DL85_N15 Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<>V_R, N_R = V_S+K+1) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE (N_S:=V_R+1, N_R:=((V_S+K)+1)) ! I		II_NC(N_S, N_R)		P=1
# START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RR	L850	SABME1_UC	(P)	P=1
START T3 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L851 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3		RR1_UR(V_R)		P=1
+DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L851	SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
			(F)	(F)
			(F)	(F)
Extended Comments: Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !SABME_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	SABME_TL_NC SABME1_UC	(1) (F) (F)	P=1

Reference: LAMP/WFO/SRS/DL85_H17
 Identifier: DL85_N17
 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SARMP frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.
 Default:

extended Comments: Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour					
Behaviour	Description	Label	Constraints Reference	V	Comments
P-Reference: LdP/NFO/F8./DL85_Nl8 I Bent after: DL85_Nl8 purpose: Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (6.4). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.	+DL85_PREAMBLE !DISC_TL START T100 ?SABME +DL85_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DI_POSTAMBLE ?TIMEOUT T100 +DL_POSTAMBLE	L850	DISC_TLI_NC SABME_UC	(P) (F) (F)	P=1
Default:					

Test Case Dynamic Behaviour			
Reference:LAPD/MFO/S85/DL85_N19 Identifier:DL85_N19 Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA frame , with excess length, received in Timer Recover state (8.5). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1. Default:			
Behaviour Description	Label	Constraints Reference	V
+DL85_PREAMBLE !UA_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	UA_TLL_NR SABMEL_UC	 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1			

Test Case Dynamic Behaviour					
Reference:LAPD/WFO/S85/S85_N20					
Identifier:DL85_N20					
Purpose:	Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL85_PREAMBLE !DM_TL START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	DM_TL_NR SABMEL_UC	(P)	P=1	
			(F)		
			(F)		

Extended Comments:Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N23				
Identifier: DL85_N23				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !RNR_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	RNR_TL1_NC (V_S) SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S85/DL85_N24				
Identifier: DL85_N24				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !REJ_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	REJ_TL1_NC (V_S) SABME1_UC	(P)	P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour			
Reference:	Behaviour Description	Label	Constraints Reference
Reference: LAPD/WFO/S85/DL85_N26 Identifier: DL85_N26 Purpose: Verify that the IUT sends a SABME/P=1 in response to a undefined frame received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:	+DL85_PREAMBLE !UNDEF START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	UNDEF1_NC SABME1_UC
			(P)
			(F)
			(F)

Extended Comments: Q.921 Ref. 5.7.1

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S85/DL85_N27				
Identifier:DL85_N27				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not permitted) received in Timer Recovery state (8.5). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL85_PREAMBLE !SABME_TL		SABME_TL1_NC		
#				
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL85_UNEXPECTED GOTO L850 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L850	SABME1_UC	(P)	P=1
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V01				
Identifier:DL86_V01				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_SABME] +DL86_PREAMBLE <IUT!SABME>				
#				
#				
#				
START Topr (T200value*N200) ?SABME +DL50_VERIFICATION +DL_POSTAMBLE ?RNR GOTO L860 +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)]	L860	SABME1_UC	(P)	Initiate Link Establishment Request P=1
#		RNR1_UC(V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.5.1.2 In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T200*N200 seconds.				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V03				
Identifier: DL86_V03				
Purpose: Verify that the IUT does not send additional I Frames in Timer Recovery state (8.6) even if V_S < V_A+K. The IUT is expected to remain in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_A_IFRAME} +DL86_PREAMBLE [I_CNT < K] <IUT:I>				V_A 0 Init one DL Data Request
#				
#				
START Topr ?TIMEOUT Topr	L860		(P)	
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE [I_CNT >= K]			(F)	
#				Window closed
+DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]			I	Test not run
#				
Extended Comments: Q.921 Ref. 5.6.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V04				
Identifier: DL86_V04				
Purpose: Verify that the IUT does not send additional I Frames in Timer Recovery state (8.6) when V_S = V_A+K (window is closed). The IUT is expected to remain in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_SEND_IFRAMES} +DL70_PREAMBLE +DL86_WC_SETUP				set window closed and timer req
#				
#				
START Td ?TIMEOUT Td	L860		(P)	IUT sends nothing
#				
+DL86_VERIFICATION +DL_POSTAMBLE ?RNR		RNR_UC(V_R)	(P)	P=1, IUT polls w/ RNR/I
#				
#				
+DL86_VERIFICATION +DL_POSTAMBLE ?I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
#				
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE [NOT (CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V08 Identifier: DL86_V08 Purpose: Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) #	L860	SABME1_NC UA1_UR	(P) (P)	P=1 F=1
Extended Comments: Q.921 Ref. 5.5.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V10 Identifier: DL86_V10 Purpose: Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) #	L860	SABME0_NC UA0_UR	(P) (P)	P=0 F=0
Extended Comments: Q.921 Ref. 5.5.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V12				
Identifier:DL86_V12				
Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE				
!DISC		DISC1_NC		P=1
START T200				
?UA	L860	UA1_UR	(P)	F=1
+DL40_VERIFICATION				
+DL_POSTAMBLE				
+DL86_UNEXPECTED				
GOTO L860				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.5.3.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V13				
Identifier:DL86_V13				
Purpose:Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.6). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE				
!DISC		DISC0_NC		P=0
START T200				
?UA	L860	UA0_UR	(P)	F=0
+DL40_VERIFICATION				
+DL_POSTAMBLE				
+DL86_UNEXPECTED				
GOTO L860				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.5.3.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V14 Identifier:DL86_V14 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !DM START T200 ?SABME #	L860	DM1_NR SABME1_UC	(P)	F=1 P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V15 Identifier:DL86_V15 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !DM START T200 ?SABME #	L860	DM0_NR SABME1_UC	(P)	F=0 P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V17				
Identifier: DL86_V17				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a FRMR/P=1 received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !FRMR_RR START T200 ?SABME	L860	FRMR_RRL_NR		F=1
#		SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V20 Identifier: DL86_V20 Purpose: Verify that the IUT sends a RNR/P=1 in response to a RR/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RR	L860	RR1_NC(V_S)		P=1 V_A<=N_R<=V_S
#				
START T200 ?RNR		RNR1_UR(V_R)	(P)	F=1
+DL82_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V21 Identifier: DL86_V21 Purpose: Verify that the IUT does not send a response to a RR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			
#	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# +DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
# ?RNR		RNR1_UC(V_R)	(I)	Fail a poll before expiry of T200
# +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE			(I)	
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V22 Identifier: DL86_V22 Purpose: Verify that the IUT does not send a response to a RR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.2). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RR		RR1_NR(V_S)		F=1 V_A<=N_R<=V_S
# START Td ?TIMEOUT Td	L860		(P)	
# +DL72_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE				
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

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Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V23				
Identifier: DL86_V23				
Purpose: Verify that the IUT does not send a response to a RR/F-0 (V.A<N.R<=V.S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RR		RR0_NR(V.S)		P=0 V.A<N.R<=V.S
# START T200 (T200value-DELTA)	L860			
# ?TIMEOUT T200				
# START T200	L861	RNR1_UC(V.R)	(F)	Allow a poll due to expiry of T200
# ?RNR				
# +DL82_VERIFICATION				
# +DL1_POSTAMBLE				
# +DL82_UNEXPECTED				
# GOTO L861				
# ?OTHERWISE			(I)	
# +DL_POSTAMBLE				
# ?TIMEOUT T200			(I)	
# +DL1_POSTAMBLE				
# ?RNR		RNR1_UC(V.R)	(F)	Fail a poll before expiry of T200
# +DL_POSTAMBLE				
# +DL86_UNEXPECTED				
# GOTO L860				
# ?OTHERWISE			(F)	
# +DL_POSTAMBLE				
Extended Comments: O.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V4				
Identifier: DL86_V24				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a REJ/F=1 (V.A<N.R<=V.S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !REJ		REJ1_NC(V.S)		P=1 V.A<N.R<=V.S
# START T200				
# ?RNR	L860	RNR1_UR(V.R)	(F)	P=1
# +DL82_VERIFICATION				
# +DL1_POSTAMBLE				
# +DL86_UNEXPECTED				
# GOTO L860				
# ?OTHERWISE			(F)	
# +DL_POSTAMBLE				
# ?TIMEOUT T200			(F)	
# +DL1_POSTAMBLE				
Extended Comments: O.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V25				
Identifier: DL86_V25				
Purpose: Verify that the IUT does not send a response to a REJ/P=0 (V_A<N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !REJ		REJ0_NC(V_S)		P=0 V_A<N_R<V_S
#	L860			
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#			(I)	
#			(I)	
#			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V26				
Identifier: DL86_V26				
Purpose: Verify that the IUT does not send a response to a REJ/P=1 (V_A<N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !REJ		REJ1_NR(V_S)		P=1 V_A<N_R<V_S
#				
START Td ?TIMEOUT Td	L860		(P)	
+DL72_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE				
?RNR			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V27				
Identifier: DL86_V27				
Purpose: Verify that the IUT does not send a response to a REJ/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !REJ		REJ0_NR(V_S)		F=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			
#	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
+DL82_VERIFICATION +DL_POSTAMBLE +DL82_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR				
#			(I)	
#			(I)	
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V28				
Identifier: DL86_V28				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a RNR/P=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RNR		RNR1_NC(V_S)		P=1 V_A<=N_R<=V_S
# START T200 ?RNR	L860			
#		RNR1_UR(V_R)	(P)	F=1
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
#			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V29				
Identifier:DL86_V29				
Purpose:Verify that the IUT does not send a response to a RNR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE				
!RNR		RNR0_NC (V_S)		P=0 V_A<=N_R<=V_S
# START T200 (T200value-DELTA)	L860			
?TIMEOUT T200				
START T200				
?RNR	L861	RNR1_UC (V_R)	(F)	Allow a poll due to expiry of T200
+DL86_VERIFICATION				
+DL_POSTAMBLE			(I)	
+DL86_UNEXPECTED			(I)	
GOTO L861				
?OTHERWISE				
+DL_POSTAMBLE				
?TIMEOUT T200				
+DL_POSTAMBLE				
?RNR		RNR1_UC (V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE				
+DL86_UNEXPECTED				
GOTO L860				
?OTHERWISE				
+DL_POSTAMBLE			(F)	

Extended Comments:Q.921 Ref. 5.6.5

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/S86_DL86_V30 Identifier:DL86_V30 Purpose:Verify that the IUT does not send a response to a RNR/F=1 (V_A<N_R<=V_S) received in timer Recovery state (8.6). The IUT is expected to be in Multiple Frame Established state (7.6). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE ?RNR START T200 ?TIMEOUT T200 START Td ?RNR +DL86_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE	L860	RNR1_NR (V_S) RNR1_UC (V_R)	(P) (I) (I) (I)	F=1 V_A<=N_R<=V_S P=1
Extended Comments:Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state.				

Test Case Dynamic Behaviour					
Reference: LAPD/MFO/SS6/DL86_V31					
Identifier: DL86_V31					
Purpose: Verify that the IUT does not send a response to a RNR/F=0 (V_A<N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL86_PREAMBLE !RNR		RNR0_NR(V_S)		F=0 V_A<N_R<V_S	
#					
START T200 (T200value=DELTA)	L860				
?TIMEOUT T200					
START T200					
?RNR	L861	RNR1_UC(V_F)	(P)	Allow a poll due to expiry of T200	
#					
#					
#					
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE					
?RNR			(I)		
#					
#					
#					
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE					
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200	
#					
#					
#					
Extended Comments: Q.921 Ref. 5.6.5					

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V33 Identifier: DL86_V33 Purpose: Verify that the IUT does not send a response to an I/P=0 received in Timer Recovery state (8.6). The IUT is expected to be in TIMER RECOVERY state (8.6). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE ! I		I0_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
#	L860			
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
#			(I)	
#			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V34 Identifier: DL86_V34 Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S>V_R, N_R=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1
#				
START T200 ?RNR	L860	RNR1_UR(V_R)	(P)	F=1
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V35				
Identifier: DL86_V35				
Purpose: Verify that the IUT does not send a response to an I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
-DL86_PREAMBLE (N_S:=V_R+1) ! I		I0_NC(N_S, V_S)		P=0
# START T200 (T200value DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L861	RNR1_U(V_R)	(F)	Allow a poll due to expiry of T200
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?RNR			(I)	
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?RNR			(F)	
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V36				
Identifier: DL86_V36				
Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S=V_R, V_A=N_R=V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL86_C1_SETUP ! I		I1_NC(V_R, V_S)		I=1 (N_S=V_R, V_A=N_R=V_S)
# START T200 ?RNR	L860	RNR1_UF(V_R)	(F)	F=1
# +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V37				
Identifier:DL86_V37				
Purpose:Verify that the IUT does not send a response to an I/P=0 (N_S<V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to remain in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL86_21_SETUP ! I		I0_NC(V_R, V_S)		P=0 (N_S=V_R, V_A<N_R<V_S)
#				
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			
#				
#				
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
#				
#				
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V38				
Identifier:DL86_V38				
Purpose:Verify that the IUT sends a RNR/P=1 in response to an I/P=1 (N_S<V_R, V_A<N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to remain in Timer Recovery state (8.6) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL86_21_SETUP (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 (N_S<V_R, V_A<N_R<V_S)
#				
#				
START T200 ?RNR	L860	RNR1_UR(V_R)	(P)	F=1
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#				
			(F)	
			I	Test not run
Extended Comments:Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V41				
Identifier: DL86_V41				
Purpose: Verify that the IUT does not send a response to an I/P=0 (N_S=V_R, V_A=N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to remain in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL86_1I_SETUP ! I		I0_NC (V_R, V_S)		P=0 (N_S=V_R, V_A=N_R< V_S)
#				
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			Allow a poll due to expiry of T200
#				
#				
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L861	RNR1_UC(V_R)	(P)	
			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
			(F)	
[NOT(CAN_SEND_A_IFRAME)]			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V42				
Identifier: DL86_V42				
Purpose: Verify that the IUT sends a RNR/F=1 in response to an I/P=1 (N_S<V_R, V_A=N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to remain in Timer Recovery state (8.6) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL86_1I_SETUP (N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 (N_S<V_R, V_A=N_R <V_S)
#				
#				
START T200 ?RNR +DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]	L860	RNR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V43				
Identifier:DL86_V43				
Purpose:Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, V_A=N_R<V_S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL86_II_SETUP (N_S:=V_R+1) !I		I0_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A=N_R<V_S)
#				
#				
# (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L860			
#				
#	L861	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR				
#				
#				
#				
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]				
#				
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
			(F)	Test not run

Continued on next page

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V44				
Identifier:DL86_V44				
Purpose:Verify that the IUT sends a SABME/P=1 after timeout of T200 N200 times in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (RC:=1)				
#				
#				
[RC<N200] START Td ?RNR(RC:=RC+1) GOTO L860 +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [RC=N200] START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L862 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L860 L861	 RNR1_UC(V_R)	 (F) (F)	 P=1
	L862	SABME1_UC	(P)	P=1
			(F)	
			(F)	

Extended Comments:Q.921 Ref. 5.6.7

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V45				
Identifier:DL86_V45				
Purpose:Verify that the IUT sends a RNR/P=1 or retransmit I/P=1 after a timeout T200 (RC<N200.V.A<V.S) in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.6) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL86_I1_SETUP START Td ?RNR #	L860	RNR1_UC(V_R)	(P)	P=1
+DL86_VERIFICATION +DL_POSTAMBLE ?I #			(P)	P=1
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)] #		I1_UC(V_S, V_R)	(F) (F) I	Test not run
Extended Comments:Q.921 Ref. 5.6.7				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_V46				
Identifier:DL86_V46				
Purpose:Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC<N200.V.A<V.S) received in Timer Recovery state (8.6). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL86_PREAMBLE START Td ?RNR #	L860	RNR1_UC(V_R)	(P)	P=1
+DL86_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(T203_IMPLEMENTED)] #			(F) (F) I	Test not run
Extended Comments:Q.921 Ref. 5.6.7 Timeout with V(A)=V(S) can be achieved only when T203 is implemented.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_V48				
Identifier: DL86_V48				
Purpose: Verify that the IUT sends a RR/P=0 in response to a CLEAR_OWN_BUSY in timer recovery state (8.6). The IUT is expected to be in timer recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL86_PREAMBLE <IUT: CLEAR_OWN_BUSY>				Clear Own Busy
#				
START Topr ?RR +DL84_VERIFICATION +DL_POSTAMBLE	L860	RR0_UC(V_R)	(P)	P=0
?RR +DL84_VERIFICATION +DL_POSTAMBLE		RR1_UC(V_R)	(P)	P=1
?RR +DL84_VERIFICATION +DL_POSTAMBLE		RR0_UC(V_R)	(P)	P=0
?RNR GOTO L860 ?SABME +DL_POSTAMBLE		RNR1_UC(V_R)		P=1
+DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr		SABME1_UC	(I)	P=1
+DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]			(F)	
#			(I)	Test not run
Extended Comments: Q.921 Ref. 5.6.6				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N01				
Identifier: DL86_N01				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in timer recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R := (V_S+K+1)) ?RR START T200 ?SABME	L860	RR1_NC(N_R)		P=1
#		SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME		RNR1_UC(V_R)		F=1
#	L862	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L862 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td			(F)	
+DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N02 Identifier: DL86_N02 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) :RR START T200 ?SABME	L860	RR0_NC(N_R) SABME1_UC	(P)	P=0 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N03 Identifier: DL86_N03 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) :RR START Td ?SABME	L860	RR1_NR(N_R) SABME1_UC	(P)	F=1 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N04				
Identifier: DL86_N04				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME	L860	RR0_NR(N_R) SABME1_UC	(P)	F=0 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F) (F)	

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N05				
Identifier: DL86_N05				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R := ((V_S+K)+1)) !REJ START T200 ?SABME	L860	REJ1_NC(N_R) SABME1_UC	(P)	P=1 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME	L861	RNR1_UR(V_R) SABME1_UC	(P)	F=1 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F) (F) (F)	

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N06				
Identifier:DL86_N06				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START T200 ?SABME		REJ0_NC(N_R)		P=0
#	L860	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N07				
Identifier:DL86_N07				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R:=((V_S+K)+1)) !REJ START Td ?SABME		REJ1_NR(N_R)		F=1
#	L860	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE				(F)
				(F)
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N08				
Identifier: DL86_N08				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START Td ?SABME	L860	REJ0_NR(N_R) SABME1_UC	(P)	F=0 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F) (F)	

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N09				
Identifier: DL86_N09				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START T200 ?SABME	L860	RNR1_NC(N_R) SABME1_UC	(P)	P=1 P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L861	RNR1_UR(V_R) SABME1_UC	(P)	F=1 P=1
#				

Extended Comments: Q.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N10				
Identifier:DL86_N10				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START T200 ?SABME	L860	RNR0_NC(N_R)		P=0
#		SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N11				
Identifier:DL86_N11				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R := ((V_S+K)+1)) !RNR START Td ?SABME	L860	RNR1_NR(N_R)		F=1
#		SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N12				
Identifier:DL86_N12				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START Td ?SABME	L860	RNR0_NR(N_R)		F=0
+DL51_VERIFICATION +DL_POSTAMBLE GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE		SABME1_UC	(P)	P=1
#				
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N13				
Identifier:DL86_N13				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S=V_R, N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE (N_R::=((V_S+K)+1)) !I	L860	IL_NC(V_R, N_R)		P=1
START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR		SABME1_UC	(P)	P=1
START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE ?TIMEOUT Td +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L861	RNR1_UR(V_R) SABME1_UC	(P)	P=1 P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case: Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N15				
Identifier: DL86_N15				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<V_R, N_R = V_S+K+1) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:	Behaviour Description	Label	Constraints Reference	V
	<pre> +DL86_PREAMBLE (N_S:=V_R+1, N_R:=(V_S+K)+1)) !! START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L861 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE </pre>	L860	<p>I1_NC(N_S, N_R)</p> <p>SABME_UC</p>	<p>P=1</p> <p>P=1</p>
		L861	<p>RNR1_UR(V_R)</p> <p>SABME_UC</p>	<p>P=1</p> <p>P=1</p>
				(F)
				(F)
				(F)
				(F)

extended Comments:

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N17 Identifier: DL86_N17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME frame, with excess length received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !SABME_TL START T200 ?SABME #	L860	SABME_TL1_NC SABME1_UC	 (P)	F=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N18 Identifier:DL86_N18 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DISC frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !DISC_TL START T200 ?SABME #	L860	DISC_TL1_NC SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N19 Identifier:DL86_N19 Purpose:Verify that the IUT sends a SABME/P=1 in response to a UA frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !UA_TL START T200 ?SABME #	L860	UA_TL1_NR SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N20				
Identifier:DL86_N20				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !DM_TL START T200 ?SABME #	L860	DM_TL1_NR SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S86/DL86_N21				
Identifier:DL86_N21				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !FRMR_TL START T200 ?SABME #	L860	FRMR_TL1_NR SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N22				
Identifier: DL86_N22				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RR_TL		RR_TL1_NC (V_S)		
#				
START T200 ?SABME	L860	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N23				
Identifier: DL86_N23				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !RNR_TL		RNR_TL1_NC (V_S)		
#				
START T200 ?SABME	L860	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO, S-6/DL86_N-4				
Identifier: DL86_N-4				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ frame, with excess length, received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE ! I_TL		REJ_TL1_NC (V_S)		
#				
START T200 ?SABME	L860	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO, S-6/DL86_N-5				
Identifier: DL86_N-5				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE ! I_TL		I_TL1_NC (V_R, V_S)		
#				
START T200 ?SABME	L860	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N26				
Identifier: DL86_N26				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an undefined frame received in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !UNDEF START T200 ?SABME # +DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L860	UNDEF1_NC SABME1_UC	 (P)	 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S86/DL86_N27				
Identifier: DL86_N27				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a frame in error (I field not permitted) in Timer Recovery state (8.6). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL86_PREAMBLE !SABME_TL START T200 ?SABME # +DL51_VERIFICATION +DL_POSTAMBLE +DL86_UNEXPECTED GOTO L860 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L860	SABME_TL1_NC SABME1_UC	 (P)	 P=1
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAFL/MPO/S87/DL87_V01 Identifier: DL87_V01 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DL_EST_REQUEST received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.0) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_SABME] +DL87_PREAMBLE <IUT:SABME> START Topr (T200value*N200) CAN_SEND_SABME +DL87_VERIFICATION +DL_POSTAMBLE ?RNR GOTO L870 +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT_Topr +DL_POSTAMBLE [NOT(CAN_SEND_SABME)] </pre>	L870	SABME_LC	(F)	Initiate Link Establishment Request
		RNR_LC(V_R)	(F)	P=1
			(F)	
			(F)	
			1	Test not run
Extended Comments: Q.921 Ref. 5.5.1.1.2 In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T300*N200 seconds.				

Extended Comments:Q.921 Ref. 5.5.1.2

In order to successfully execute this test, the test operator must be able to have the IUT send a SABME in less than T200*N200 seconds.

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4 Abstract Test Suite - Part I

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/HL87_V03				
Identifier: DL87_V03				
Purpose: Verify that the IUT does not send additional I frames in Timer Recovery state (8.7) even if $V_S < V_A + K$. The IUT is expected to remain in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_SEND_A_IFFRAME] +DL87_PREAMBLE [I_CNT < K] <IUT:1> </pre>	L870			V_A=0 Init one DL Data Reques t
<pre> (TAKT Popr TIMEOUT Topr +DL87_VERIFICATION +DL_POSTAMBLE +D:87_UNEXPECTED GOTO L870 OTHERWISE +DL_POSTAMBLE [I_CNT >= K] </pre>			(P)	
<pre> +DL_POSTAMBLE [NOT (CAN_SEND_A_IFFRAME)] </pre>			(F)	
			(I)	Window closed
			I	Test not run

Extended Comments: 0.921 Ref. 5.6.1

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V04				
Identifier:DL87_V04				
Purpose:Verify that the IUT does not send additional I frames in Timer Recovery state (8.7) when V_S = V_A+K (window is closed). The IUT is expected to remain in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL87_WC_SETUP				set window closed and timer req
#				
#				
START Td ?TIMEOUT Td	L870		(F)	IUT sends nothing
+DL87_VERIFICATION +DL_POSTAMBLE				
?RNR		RNR1_UC(V_R)	(P)	F=1, IUT polls w/ RNR/1
#				
#				
+DL87_VERIFICATION +DL_POSTAMBLE				
?I		I0_UC(V_S, V_R)	(F)	IUT sends queued I - Fail
#				
#				
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870				
?OTHERWISE				
+DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V08				
Identifier:DL87_V08				
Purpose:Verify that the IUT sends a UA/F=1 in response to a SABME/F=1 received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0)		SABME_NC		P=1
#	L870	UA1_UR	(P)	F=1
+DL70_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870				
?OTHERWISE +DL_POSTAMBLE			(F)	
?TIMEOUT T200 +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V10				
Identifier: DL87_V10				
Purpose: Verify that the IUT sends a UA/F=0 in response to a SABME/P=0 received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !SABME START T200 ?UA (V_S:=0,V_R:=0,V_A:=0)	L870	SABME0_NC UA0_UR	(P)	P=0 F=0
# +DL70_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.5.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V12				
Identifier: DL87_V12				
Purpose: Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Timer Recovery state (8.7). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !DISC START T200 ?UA	L870	DISC1_NC UA1_UR	(P)	P=1 F=1
# +DL40_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V13				
Identifier:DL87_V13				
Purpose:Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in Timer Recovery state (8.7). The IUT is expected to be in TEI Assigned state (4.0) after sending UA/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !DISC START T200 ?UA	L870	DISC0_NC		P=0
#		UA0_UR	(P)	F=0
+DL40_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 5.5.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V14				
Identifier:DL87_V14				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !DM START T200 ?SABME	L870	DM1_NR		F=1
#		SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V15 Identifier:DL87_V15 Purpose:Verify that the IUT sends a SABME/P=1 in response to a DM/F=0 received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE :DM START T200 ?SABME # +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	DM0_NR SABME1_UC	(F) (P) (F) (F)	F=0 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V17 Identifier:DL87_V17 Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE :FRMR_RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	FRMR_RR1_NR SABME1_UC	(P) (F) (F)	F=1 P=1
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V20				
Identifier: DL87_V20				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a RR/P=1 (V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RR		RR1_NC(V_S)		P=1 V_A<N_R<V_S
#				
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
#			(F)	
Extended Comments: Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V21				
Identifier: DL87_V21				
Purpose: Verify that the IUT does not send a response to a RR/P=0 (V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RR		RR0_NC(V_S)		P=0 V_A<N_R<V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
?RNR			(I)	
#			(I)	
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
Extended Comments: Q.921 Ref. 5.6.5				
			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V22				
Identifier: DL87_V22				
Purpose: Verify that the IUT does not send a response to a RR/F=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RR				F=1 V_A<=N_R<=V_S
#				
START Td ?TIMEOUT Td				
#				
+DL73_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE	L870	RR1_NR(V_S)	(P)	
			(F)	

Extended Comments: Q.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V23				
Identifier: DL87_V23				
Purpose: Verify that the IUT does not send a response to a RR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RR				F=0 V_A<=N_R<=V_S
#				
START T200 (T200value=DELTA) ?TIMEOUT T200 START T200 ?RNR	L870	RR0_NR(V_S)		
#				
#				
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
			(F)	Fail a poll before expiry of T200
#				
#				
#				
+DL_POSTAMBLE -DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)		
			(F)	

Extended Comments: Q.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V24				
Identifier: DL87_V24				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a REJ/P=1 (V_A<N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !REJ				
#		REJ1_NC(V_S)		P=1 V_A<N_R<=V_S
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE				
			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V25				
Identifier: DL87_V25				
Purpose: Verify that the IUT does not send a response to a REJ/P=0 (V_A<N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !REJ				
#		REJ0_NC(V_S)		P=0 V_A<N_R<=V_S
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
#				
#	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE				
			(I)	
?TIMEOUT T200 +DL_POSTAMBLE			(I)	
?RNR				
#				
#		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE				
			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V26				
Identifier: DL87_V26				
Purpose: Verify that the IUT does not send a response to a REJ/F=1 (V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE :REJ		REJ1_NR(V_S)		F=1 V_A<N_R<V_S
#				
START Td ?TIMEOUT Td	L870		(P)	
+DL73_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V27				
Identifier: DL87_V27				
Purpose: Verify that the IUT does not send a response to a REJ/F=0 (V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE :REJ		REJ0_NR(V_S)		F=0 V_A<N_R<V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 :NNR	L870			
+DL83_VERIFICATION +DL_POSTAMBLE +DL83_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L871	NNR1_UC(V_R)	(F)	Allow a poll due to expiry of T200
#				
:NNR			(I)	
#				
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE		NNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
Extended Comments: Q.921 Ref. 5.6.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V28				
Identifier:DL87_V28				
Purpose:Verify that the IUT sends a RNR/F=1 in response to a RNR/F=1 (V_A<=N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RNR		RNR1_NC(V_S)		P=1 V_A<=N_R<=V_S
#				
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	P=1
#				
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V29				
Identifier:DL87_V29				
Purpose:Verify that the IUT does not send a response to a RNR/P=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RNR		RNR0_NC(V_S)		P=0 V_A<=N_R<=V_S
#				
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
#				
L871		RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
#				
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
			(I)	
			(I)	
?RNR		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
#				
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE				
			(F)	
Extended Comments:Q.921 Ref. 5.6.5				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/SR7/DLS7_V30 Identifier: DL87_V30 Purpose: Verify that the IUT does not send a response to a RNR/F=1 ($V_A \leftarrow N_R = V_S$) received in timer Recovery state (8.7). The IUT is expected to be in Multiple Frame Established state (7.7).				
Default:	Behaviour Description	Label	Constraints Reference	V Comments
#	+DL87_PREAMBLE !RNR START T200 ?TIMEOUT T200 START Td ?RNR +DL87_VERIFICATION +DL_POSTAMBLE ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?RNR +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE	L870	RNR1_NR (V_S) RNR1_UC (V_R)	F=1 $V_A \leftarrow N_R$ $R \leftarrow V_S$ F=1 F=1 F=1 F=1
Extended Comments: Q.921 Ref. 5.6.5 At the instant that the IUT receives RNR/F=1, it starts its T200 timer. In order to not incorrectly fail the IUT when it sends a poll upon expiry of its T200, a poll received prior to the TIMEOUT of T200 is assigned an INCONCLUSIVE verdict; a poll received after expiry of T200 is assigned a conditional PASS verdict with a verification of the appropriate state.				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S67/DL87_V31 Identifier:DL87_V31 Purpose:Verify that the IUT does not send a response to a RNR/F=0 (V_A<=N_R<=V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE :RNR #		RNR0_NR(V_S)		F=0 V_A<=N_R<=V_S
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR #	L870			
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR #	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE #				
			(F)	

extended Comments:0.921 Ref. 5.6.5

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V32				
Identifier: DL87_V32				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE ! I		I1_NC(V_R, V_S)		P=1 N_S=V_R N_R=V_S
# START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
# +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments: Q.921 Ref. 5.6.2.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V33				
Identifier: DL87_V33				
Purpose: Verify that the IUT does not send a response to a I/P=0 received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE ! I		I0_NC(V_R, V_S)		P=0 N_S=V_R N_R=V_S
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
# +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# ?RNR			(I)	
# +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(I)	Fail a poll before expiry of T200
#			(F)	
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V34				
Identifier: DL87_V34				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_S::=V_R+1) !I		11_NC(N_S, V_S)		P=1
# START T200 ?RNR	L870	RNR1_UC(V_R)	(P)	F=1
# +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V35				
Identifier: DL87_V35				
Purpose: Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, N_R=V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_S::=V_R+1) !I		IQ_NC(N_S, V_S)		P=0
# START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
# +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
# ?RNR				
# +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE				
# +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
Extended Comments: Q.921 Ref. 5.8.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V36				
Identifier: DL87_V36				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL87_2I_SETUP ! I		IL_NC(V_R, V_S)		P=1 (N_S=V_R, V_A<N_R<V_S)
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
+DL87_VERIFICATION +DL_POSTAMBLE GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V37				
Identifier: DL87_V37				
Purpose: Verify that the IUT does not send a response to a I/P=0 (N_S=V_R V_A<N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL87_2I_SETUP ! I		IO_NC(V_R, V_S)		P=0 (N_S=V_R, V_A<N_R<V_S)
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL87_VERIFICATION +DL_POSTAMBLE GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.6.2.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V38 Identifier: DL87_V38 Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7) · The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL87_2I_SETUP (N_S::=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 (N_S<>V_R, V_A<N_R<V_S)
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]			(F)	
#			(F)	
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V39 Identifier: DL87_V39 Purpose: Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, V_A<N_R<V_S) received in Timer Recovery state (8.7) · The IUT is expected to remain in Timer Recovery state (8.7) Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_IFRAMES] +DL70_PREAMBLE +DL87_2I_SETUP (N_S::=V_R+1) ! I		I0_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A<N_R<V_S)
START T200 ?TIMEOUT T200 START T200 ?RNR	L870			
#	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
#			(I)	
#			(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_IFRAMES)]				
#			(F)	Test not run
#			I	

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Test Case	Dynamic Behaviour
Reference:LAPD/MFO/S97/DL87_V41 Identifier:DL87_V41 Purpose:Verify that the IUT does not send a response to a I/P=0 N_S=V_R, V_A=N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7). Default:	

Extended Comments:Q.921 Ref. 5.8.1

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_V40				
Identifier:DL87_V40				
Purpose:Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S=V_R, V_A=N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_FRAMEBLE +DL87_1I_SETUP ! I		IL_NC (V_R, V_S)		P=1 (N_S=V_R, V_A=N_R<V_S)
START T200 ?RNR +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]	L870	RNR1_UR(V_R)	(P)	F=1
			(F)	
			(F)	
			I	Test not run

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V42				
Identifier: DL87_V42				
Purpose: Verify that the IUT sends a RNR/F=1 in response to a I/P=1 (N_S<>V_R, V_A=N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL87_IL_SETUP (N_S:=V_R+1) ! I		IL_NC(N_S, V_S)		P=1 (N_S<>V_R, V_A=N_R<V_S)
START T200 ?RNR	L870	RNR1_UR(V_R)	(P)	F=1
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
			(F)	
			I	Test not run
Extended Comments: Q.921 Ref. 5.8.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V43				
Identifier: DL87_V43				
Purpose: Verify that the IUT does not send a response to a I/P=0 (N_S<>V_R, V_A=N_R<V_S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL87_IL_SETUP (N_S:=V_R+1) ! I		IO_NC(N_S, V_S)		P=0 (N_S<>V_R, V_A=N_R<V_S)
START T200 (T200value-DELTA) ?TIMEOUT T200 START T200 ?RNR	L870			
	L871	RNR1_UC(V_R)	(P)	Allow a poll due to expiry of T200
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE ?RNR			(I)	
			(I)	
		RNR1_UC(V_R)	(F)	Fail a poll before expiry of T200
+DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]			(F)	
			I	Test not run

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Extended Comments:Q.921 Ref. 5.8.1

Test Case Dynamic Behaviour					
Reference:LAPD/MFO/S87/DL87_V44 Identifier:DL87_V44					
Purpose:Verify that the IUT sends a SABME/P=1 after timeout of T200 n200 times in timer recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
# #	+DL87_PREAMBLE (RC:=1)	L870			Timeout once in Preamble
#	[RC<N200] START Td ?RNR(RC::=RC+1) GOTO L870 +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [RC=N200]	L871	RNR1_UC(V_R)	(F) (F)	P=1
#	?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L872 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L872	SABMEL_UC	(P)	P=1

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V45				
Identifier: DL87_V45				
Purpose: Verify that the IUT sends a RNR/P=1 or retransmit I/P=1 after a timeout T200 (RC=N200, V_A<V_S) in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.7) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL87_1I_SETUP START Td ?RNR	L870	RNR1_UC(V_R)	(P)	P=1
+DL87_VERIFICATION +DL_POSTAMBLE ? ? +DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_SEND_A_IFRAME)]		II_UC(V_S, V_R)	(P)	P=1
			(F)	
			(F)	
			I	Test not run

Extended Comments:Q.921 Ref. 5.6.7

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V46				
Identifier: DL87_V46				
Purpose: Verify that the IUT sends a RNR/P=1 in response to a timeout T200 (RC<N200, V.A=V.S) received in Timer Recovery state (8.7). The IUT is expected to remain in Timer Recovery state (8.7) after sending RNR/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[T203_IMPLEMENTED] +DL87_PREAMBLE START Td ?RNR	L870	RNR1_UC(V_R)	(P)	P=1
+DL87_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(T203_IMPLEMENTED)]			(F) (F)	Test not run
Extended Comments: Q.921 Ref. 5.6.7 Timeout with V(A)-V(S) can be achieved only when T203 is implemented.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_V48				
Identifier: DL87_V48				
Purpose: Verify that the IUT sends a RR/F=0 in response to a CLEAR_OWN_BUSY in Timer Recovery state (8.7). The IUT is expected to be in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL87_PREAMBLE <IUT!CLEAR_OWN_BUSY>				Clear Own Busy
# START Topr ?RR +DL85_VERIFICATION +DL_POSTAMBLE ?RR +DL85_VERIFICATION +DL_POSTAMBLE ?RR +DL85_VERIFICATION +DL_POSTAMBLE ?RNR GOTO L870 ?SABME +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L870	RR0_UR(V_R) RNR1_UC(V_R) RR0_UC(V_R) RNR1_UC(V_R) SABME1_UC	(P) (P) (P) (I) (F) (I)	F=0 P=1 P=0 P=1
#				Test not run
Extended Comments: Q.921 Ref. 5.6.6				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S87/DL87_N01 Identifier: DL87_N01 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	RR1_NC(N_R) SABME1_UC RNRI_UR(V_R) SABME1_UC	 (P) (P) (F) (F) (F) (F)	 P=1 P=1 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S87/DL87_N02 Identifier: DL87_N02 Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RR START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	RR0_NC(N_R) SABME1_UC	 (P) (F) (F)	 P=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N03				
Identifier: DL87_N03				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L870	RR1_NR(N_F) SABME1_UC	 (P) (F) (F)	 F=1 P=1
Extended Comments: Q.921 Ref. 5.8.2				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N04				
Identifier: DL87_N04				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RR/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Waiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R := ((V_S+K)+1)) !RR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L870	RR0_NR(N_R) SABME1_UC	 (P) (F) (F)	 F=0 P=1
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N05 Identifier: DL87_N05 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 (N.R = V.S+K+1) received in timer recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N.R := ((V.S+K)+1)) !REJ START T200 ?SABME #	L870	REJ1_NC(N_R) SABME1_UC	(P)	P=1 P=1
+DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME #	L871	RNR1_UR(V_R) SABME1_UC	(P)	F=1 P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F) (F) (F)	
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N06 Identifier: DL87_N06 Purpose: Verify that the IUT sends a SABME/P=1 in response to a REJ/P=0 (N.R = V.S+K+1) received in timer recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N.R := ((V.S+K)+1)) !REJ START T200 ?SABME #	L870	REJ0_NC(N_R) SABME1_UC	(P)	P=0 P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N07				
Identifier:DL87_N07				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START Td ?SABME	L870	REJL_NR(N_R)		F=1
#		SABMEL_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N08				
Identifier:DL87_N08				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/F=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !REJ START Td ?SABME	L870	REJ0_NR(N_R)		F=0
#		SABMEL_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N09				
Identifier:DL87_N09				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START T200 ?SABME		RNR1_NC(N_R)		P=1
#	L870	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE ?TIMEOUT Td ?SABME		RNR1_UR(V_R)		F=1
#	L871	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N10				
Identifier:DL87_N10				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START T200 ?SABME		RNR0_NC(N_R)		P=0
#	L870	SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N11				
Identifier: DL87_N11				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/F=1 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L870	RNR1_NR(N_R) SABME1_UC	 (P) (F) (F)	P=1 P=1
#				
Extended Comments: O.921 Ref. 5.8.2				

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S87/DL87_N12				
Identifier: DL87_N12				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a RNR/P=0 (N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R::=((V_S+K)+1)) !RNR START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L870	RNR0_NR(N_R) SABME1_UC	 (P)	 F=0 P=1
			(F)	
			(F)	

Extended Comments: Q.921 Ref. 5.8.2

Test Case Dynamic Behaviour				
Reference: LAPD/WFO/S87/DL87_N14				
Identifier: DL87_N14				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S=V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE (N_R := ((V_S+K)+1)) ; I				P=0
# START T200 ? SABME				P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ? OTHERWISE +DL_POSTAMBLE ? TIMEOUT T200 +DL_POSTAMBLE	L870	SABME1_UC	(F)	
			(F)	

Extended Comments: 0.921 Ref. 5.8.2

LAPD Conformance Testing

Test Case: Dynamic Behaviour					
Reference: LAPD/MFO/S87/DL87_N15					
Identifier: DL87_N15					
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=1 (N_S<V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
+DL87_PREAMBLE (N_S:=V_R+1, N_R:=((V_S+K)+1)) ! I		IL_NC(N_C, N_R)		I=1	
START T200 ?SABME	L870	SABME_UC	(P)	I=1	
+DL51_VERIFICATION +DL_POSTAMBLE ?RNR START Td ?SABME	L871	FNRL_UP(V_R) SABME_UC	(P)	I=1	
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L871 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)		
			(F)		
			(P)		
			(F)		
Extended Comments: Q.921 Ref. 5.8.2					

LAPD Conformance Testing

Test Case: Dynamic Behaviour					
Reference: LAPD/MFO/S97/DL87_N16					
Identifier: DL87_N16					
Purpose: Verify that the IUT sends a SABME/P=1 in response to a I/P=0 (N_S<V_R, N_R = V_S+K+1) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.					
Default:					
Behaviour Description	Label	Constraints Reference	V	Comment	
+DL87_PREAMBLE (N_S:=V_R+1, N_R:=((V_S+K)+1)) ! I		IO_NC(N_S, N_R)		P=0	
START T200 ?SABME	L870	SABME_UC	(P)	P=1	
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F)		
			(F)		
Extended Comments: Q.921 Ref. 5.8.2					

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N17 Identifier: DL87_N17 Purpose: Verify that the IUT sends a SABME/P=1 in response to a SABME/P=1, with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !SABME_TL START T200 ?SABME #	L870	SABME_TL1_NC SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N18 Identifier: DL87_N18 Purpose: Verify that the IUT sends a SABME/P=1 in response to a DISC/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !DISC_TL START T200 ?SABME #	L870	DISC_TL1_NC SABME1_UC	(P)	P=1
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DLS/N19				
Identifier: DL87_N19				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a UA/F=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !UA_TL START T200 ?SABME	L870	UA_TL1_NR SABME1_UC	(P)	P=1
#				
-DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +UL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference: LAPD/MFO/S87/DL87_N20				
Identifier: DL87_N20				
Purpose: Verify that the IUT sends a SABME/P=1 in response to a DM/F=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !DM_TL START T200 ?SABME	L870	DM_TL1_NR SABME1_UC	(F)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments: Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N21				
Identifier:DL87_N21				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a FRMR/F=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !FRMR_TL START T200 ?SABME	L870	FRMR_TL1_NR	(P)	P=1
# +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		SABME1_UC		
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N22				
Identifier:DL87_N22				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RR/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RR_TL	L870	RR_TL1_NC (V_S)	(P)	P=1
START T200 ?SABME		SABME1_UC		
# +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
Extended Comments:Q.921 Ref. 5.7.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/WFO/S87/DL87_N23				
Identifier:DL87_N23				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a RNR/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !RNR_TL		RNR_TL1_NC (V_S)		
#				
START T200 ?SABME	L870	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

4 Abstract Test Suite - Part I

1973

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/WFO/S87/DL87_N24				
Identifier:DL87_N24				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a REJ/P=1 with excess length, received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !REJ_TL		REJ_TL1_NC (V_S)		
#				
START T200 ?SABME	L870	SABME1_UC	(P)	P=1
#				
+DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

4 Abstract Test Suite - Part I

1974

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N25				
Identifier:DL87_N25				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an I frame with excess length (N201 error) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !I_TL		I_TL1_NC(V_S, V_R)		
# START T200 ?SABME	L870	SABME1_UC	(P)	P=1
# +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N26				
Identifier:DL87_N26				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an undefined command frame received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !UNDEF START T200 ?SABME		UNDEF1_NC		
# +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	SABME1_UC	(P)	P=1
			(F) (F)	
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/MFO/S87/DL87_N27				
Identifier:DL87_N27				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a frame with error (I field not permitted) received in Timer Recovery state (8.7). The IUT is expected to be in Awaiting Establishment state (5.1) after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL87_PREAMBLE !SABME_TL # START T200 ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL87_UNEXPECTED GOTO L870 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L870	SABME_TL1_NC SABME1_UC	(P) (F) (F)	P=1
Extended Comments:Q.921 Ref. 5.7.1				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N01				
Identifier:DS10_N01				
Purpose:Verify that the IUT ignores an I(P=0) with no information field received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !I # START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	I0_NC_NI(0,0)	(P) (F)	P=0, I-field empty No response rcvd.
Extended Comments:Q.921 Ref. 2.9 I-field in I Frame is empty				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N03				
Identifier:DS10_N03				
Purpose:Verify that the IUT ignores a FRMR received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !FRMR_UA # # #		FRMR_UA1_NR		F=1, Rejecting UA Frame
START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100		(P)	No response rcvd.
Extended Comments:Q.921 Ref. 2.9 FRMR is rejecting UA frame				
			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N04				
Identifier:DS10_N04				
Purpose:Verify that the IUT ignores an UI frame too long received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !UI_TL # # #		UI_TL0_NC		P=0, UI Frame too long
START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100		(P)	No response rcvd.
			(F)	
Extended Comments:Q.921 Ref. 2.9 UI Frame has information field that is too long				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N05				
Identifier:DS10_N05				
Purpose:Verify that the IUT ignores an UI with bad FCS received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE				
!UI_FCS		UI0_FCS_NC		P=0. UI with bad FCS
#				
#				
START Td				
?TIMEOUT Td	L100		(P)	No response rcvd.
+DL10_VERIFICATION				
+DL_POSTAMBLE				
+DL10_UNEXPECTED				
GOTO L100				
?OTHERWISE				
+DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 2.9 UI Frame has bad FCS Field.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS10_N08 Identifier: DS10_N08 Purpose: Verify that the IUT does not respond to an ID_Check_Request with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !UI_Mgmt START T201 (T201value+DELTA) ?TIMEOUT T201 +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Chk_Req(0,0,0,127)	(F)	ID Chk Req with an invalid C/R (=0) No response
# # #				

Extended Comments: Q.921 Ref. 3.6.1

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N09 Identifier:DS10_N09 Purpose:Verify that the IUT does not respond to an ID_Check_Request with an invalid Octet 2 EA bit (=1). The IUT is expected to remain in TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE !UI_Mgmt # # START T201 (T201value+DELTA) ?TIMEOUT T201 +DL10_VERIFICATION +DL_POSTAMBLE GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Chk_Req(1,1.0,127)	(P) (F)	ID Chk Req with an invalid EA No response
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N10 Identifier:DS10_N10 Purpose:Verify that the IUT does not respond to an ID_Assigned with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE +ASSIGN_AI !UI_Mgmt # # # # START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Assign (0,0.0,AI_No)	 (P) (F)	Get an unused TEI ID Assigned with an invalid C/R (=0) No response
Extended Comments:Q.921 Ref. 3.6.1				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N11				
Identifier:DS10_N11				
Purpose:Verify that the IUT does not respond to an ID_Assigned with an invalid Octet 2 EA bit (=1). The IUT is expected to remain in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10S_PREAMBLE +ASSIGN_AI				
# !UI_Mgmt		Inv_Id_Assign (1.1.0.Ai_No)		Get an unused TEI ID Assigned with invalid EA
#				
START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100		(P)	No response
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N12				
Identifier:DS10_N12				
Purpose:Verify that the IUT does not respond to an ID_Denied with an invalid C/R (=0). The IUT is expected to remain in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE +ASSIGN_AI !UI_Mgmt				
#				
#				
START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Denied (0.0.0.Ai_No)	(P)	ID Denied with invalid C/R (=0)
Extended Comments:Q.921 Ref. 3.6.1				
			(F)	No response
			(F)	

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_N13				
Identifier:DS10_N13				
Purpose:Verify that the IUT does not respond to an ID_Denied with an invalid Octet 2 EA bit (=1). The IUT is expected to remain in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE +ASSIGN_AI !UI_Mgmt START Td ?TIMEOUT Td +DL10_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Denied (1,1,0,Ai,No)	(P)	ID Denied with invali d EA No response
Extended Comments:Q.921 Ref. 2.9				
(F)				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N01				
Identifier:DS20_N01				
Purpose:Verify that the IUT does not respond to an I frame with no information field in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !I START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	I0_NC_NI (0.0)	(P)	no info no response
Extended Comments:Q.921 Ref.				
(F)				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N02				
Identifier:DS20_N02				
Purpose:Verify that the IUT does not respond to an I frame with a layer 3 RELEASE in the information field in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE ! I START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	IN10_NC(V,R,N _R)	(P)	RELEASE no response
Extended Comments:Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N03				
Identifier:DS20_N03				
Purpose:Verify that the IUT does not respond to an FRMR frame in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE ! FRMR_RR START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	FRMR_RRL_NR	(P)	no response
Extended Comments:Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N04				
Identifier:DS20_N04				
Purpose:Verify that the IUT does not respond to a UI frame that is too long in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	UI_TL0_NC	(P)	no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N05				
Identifier:DS20_N05				
Purpose:Verify that the IUT does not respond to a UI frame with an FCS error in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	UI0_FCS_NC	(P)	no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N08				
Identifier:DS20_N08				
Purpose:Verify that the IUT does not respond to an ID Check Request with an invalid CR in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt		Inv_Chk_Req(0 ,0.0,127)		Invalid CR
# START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100		(P) (F)	no response
Extended Comments:Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N09				
Identifier:DS20_N09				
Purpose:Verify that the IUT does not respond to an ID Check Request with an invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt		Inv_Chk_Req(1 ,1.0,127)		Invalid EA
# START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100		(P) (F)	no response
Extended Comments:Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N10 Identifier:DS20_N10 Purpose:Verify that the IUT does not respond to an ID Assigned with an invalid CR in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Assign (0,0,1,127)	(P)	Invalid CR no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N11 Identifier:DS20_N11 Purpose:Verify that the IUT does not respond to an ID Assigned with an invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Assign (1,1,1,127)	(P)	Invalid EA no response
Extended Comments:Q.921 Ref.				
Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N12				
Identifier:DS20_N12				
Purpose:Verify that the IUT does not respond to an ID Denied with an invalid CR in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Denied (0,0,1,127)	(P)	Invalid CR no response
Extended Comments:Q.921 Ref. Test cases in Assign Awaiting TEI state (2.0) are only executed for automatic TEI devices.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS20_N13				
Identifier:DS20_N13				
Purpose:Verify that the IUT does not respond to an ID Denied with invalid extension bit in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE	L100	Inv_Id_Denied (1,1,1,127)	(P)	Invalid EA no response
Extended Comments:Q.921 Ref. Test cases in Awaiting Establishment state (2.0) are only executed for automatic TEI devices.				

I APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAPD/SYSTEM DC20 N14				
Identifier: DC20 N14				
Purpose: Verify that the IUT does not respond to a UI frame (with no information) received in Assign Awaiting TEI state (2.0). The IUT is expected to remain in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL20_PREAMBLE ?UI_Nomt START T3 ?TIMEOUT T3 +DL20_VERIFICATION +DL_POSTAMBLE +DL20_UNEXPECTED GOTO L200 ?OTHERWISE +DL_POSTAMBLE	L200	UI0_NC_NI	(F)	UI with no information no response
Extended Comments: Q.921 Ref. 5.2.3				

I APD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAPD/SYSTEM DL40 N01				
Identifier: DL40 N01				
Purpose: Verify that the IUT does not respond to a SABME (with a TEI value not assigned to the IUT) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE ?SABME START T3 ?TIMEOUT T3 +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	SABMETEI_NC (UNUSED_TET)	(P)	SABME with unassigned TEI no response
Extended Comments: Q.921 Ref. The SABME sent by the Tester has a TEI value different from the value assigned to the IUT (for Automatic TEI equipment) or different from the value which the vendor claims to support (for Non-automatic TEI equipment).				
			(F)	

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N06 Identifier:DS40_N06 Purpose:Verify that the IUT does not respond to an RR (with a TEI value not assigned to the IUT) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !RR # # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	RREIL_NC (UNUSED_TEI.N _R)	(P)	RR with unassigned TEI no response
Extended Comments:Q.921 Ref. 3.4.3 The RR sent by the Tester has a TEI value different from the value assigned to the IUT (for Automatic TEI equipment) or different from the value which the vendor claims to support (for Non-automatic TEI equipment).				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N07 Identifier:DS40_N07 Purpose:Verify that the IUT does not respond to an I with information, (with a TEI value not assigned to the IUT) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !I # # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	ITEIL_NC (UNUSED_TEI.N _S.N_R)	(P)	I with unassigned TEI no response
Extended Comments:Q.921 Ref. 3.4.3 The I sent by the Tester has a TEI value different from the value assigned to the IUT (for Automatic TEI equipment) or different from the value which the vendor claims to support (for Non-automatic TEI equipment).				

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N08 Identifier:DS40_N08 Purpose:Verify that the IUT does not respond to an ID-Check-Request with bad CR received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Chk_Req(0 ,0,0,Ai_No)	(P)	CR=0 no response
Extended Comments:Q.921 Ref. 3.6.1				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N09 Identifier:DS40_N09 Purpose:Verify that the IUT does not respond to an ID-Check-Request with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Chk_Req(1 ,1,0,Ai_No)	(P)	EA=1 no response
Extended Comments:Q.921 Ref. 2.9 (e)				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N10 Identifier:DS40_N10 Purpose:Verify that the IUT does not respond to an ID-Assigned with bad CR received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Id_Assign (0,0,0,Ai_No)	(F)	CR=0 no response
#			(F)	
Extended Comments:Q.921 Ref. 2.9 (e)				

4 Abstract Test Suite - Part I

2005

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N11 Identifier:DS40_N11 Purpose:Verify that the IUT does not respond to an ID-Assigned with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Id_Assign (1,1,0,Ai_No)	(F)	EA=1 no response
#			(F)	
Extended Comments:Q.921 Ref. 2.9 (e)				

4 Abstract Test Suite - Part I

2006

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N12				
Identifier:DS40_N12				
Purpose:Verify that the IUT does not respond to an ID-Denied with bad CR received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Id_Denied (0,0,0,Ai_No)	(P) (F)	CR=0 no response
Extended Comments:0.921 Ref. 3.6.1				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N13				
Identifier:DS40_N13				
Purpose:Verify that the IUT does not respond to an ID-Denied with bad EA (first address field extension bit) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	Inv_Id_Denied (1,1,0,Ai_No)	(P) (F)	EA=1 no response
Extended Comments:0.921 Ref. 2.9 (e)				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N14				
Identifier:DS40_N14				
Purpose:Verify that the IUT does not respond to a UI frame, with no information, received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	UI0_NC_NI	(P) (F)	UI w/no info no response
Extended Comments:Q.921 Ref. 5.5.4				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_N15				
Identifier:DS40_N15				
Purpose:Verify that the IUT does not respond to a frame with an FCS error received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !I_FCS # START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400	IFCS0_NC(V_R, V_S)	(P)	FCS error encoding rcvd.
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS50_N15				
Identifier:DS50_N15				
Purpose:Verify that the IUT does not respond to a frame with an FCS error received in Awaiting Establishment state (5.0). The IUT is expected to remain in the Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !I_FCS		IFCS0_NC(V_R, V_S)		FCS error encoding
#				
START Td ?TIMEOUT Td	L500		(P)	No response rcvd.
+DL50_VERIFICATION +DL_POSTAMBLE ?SABME GOTO L500 +DL50_UNEXPECTED GOTO L500 ?OTHERWISE +DL_POSTAMBLE		SABME1_UC		
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS50_N17				
Identifier:DS50_N17				
Purpose:Verify that the IUT does not respond to an ID_Remove (Ai-different TEI) received in Awaiting Establishment state (5.0). The IUT is expected to remain in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL50_PREAMBLE !UI_Mgmt		ID_Rmv(UNUSED _TEI)		Ai <> TEI_N , Ai valid
#				
START Td ?TIMEOUT Td +DL50_VERIFICATION +DL_POSTAMBLE GOTO L500 ?OTHERWISE +DL_POSTAMBLE	L500		(P)	
Extended Comments:Q.921 Ref. 5.3.4 This test is executed for both automatic and non-automatic TEI IUTs. Ai is a valid value (64-126) , but not equal to TEI under test.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS51_V16				
Identifier:DS51_N16				
Purpose:Verify that the IUT sends the I frame queued prior to transmission of a SAME/P=1 and after receiving a UA/F=1 in the Waiting Establishment state (5.1). The IUT is expected to enter Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE +DL74_1I_SETUP !DM +DL51_PREAMBLE !UA START T200 ?I CANCEL T200	L510	DM1_NR UA1_NR IO_UC(V_S, V_R)	(P)	F=1
#				
+DL70_VERIFICATION +DL_POSTAMBLE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (F)	
Extended Comments:Q.921 Ref. 5.7				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS60_N15				
Identifier:DS60_N15				
Purpose:Verify that the IUT does not send a response to a frame with an FCS error received in Awaiting Release state (6.0). The IUT is expected to remain in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE !I_FCS START Td ?TIMEOUT Td	L600	IFCS0_NC(V_R, V_S)	(P)	FCS error encoding rcvd.
#				
+DL60_VERIFICATION ?DISC GOTO L600 +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE		DISC1_UC	(F)	
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: IAPD/SYSTEM/DS60_N17 Identifier: DS60_N17 Purpose: Verify that the IUT does not respond to an ID-Remove (AI-different TEI) received in Awaiting Release state (6.0). The IUT is expected to remain in Awaiting Release state (6.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL60_PREAMBLE : UI_Mgmt # START Td ?TIMEOUT Td +DL60_VERIFICATION +DL_POSTAMBLE +DL60_UNEXPECTED GOTO L600 ?OTHERWISE +DL_POSTAMBLE	L600	ID_Rmv (UNUSED _TEI)	(P)	AI < TEI_N , AI valid
			(F)	
Extended Comments: IQ.921 Ref. 5.3.4 This test is executed for both automatic and non-automatic TEI IUTs. AI is a valid value (64-126) but not equal to TEI under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_V01 Identifier:DS70_V01 Purpose:Verify that IUT correctly updates its N(R) counter using modulo 128 addition. The IUT is expected to respond to consecutively numbered I-frames with an RR or RNR with F=1 and N(R) <= 127. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (I_CNT:=0) ! I(V_A:=I.N_R) # # # #	L700	I1_NC(V_R, V_S)		P=1,N(R) set to V(S) , N(S) set to V(R) of IUT
START T200 (V_R1:=(V_R+1)MOD 128)) ?RR(I_CNT:=I_CNT+1,V_R:= # ((V_R+1)MOD 128)) [I_CNT>128) #	L701	RRL_UR(V_R1)	(P)	F=1 All 128 frames sent
+DL70_VERIFICATION +DL_POSTAMBLE [I_CNT<=128] GOTO L700 +IUT_BSY [FAIL_FL=TRUE] +DL_POSTAMBLE [(FAIL_FL=FALSE)AND # (I_CNT>128)] +DL_POSTAMBLE GOTO L700 +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			(F) (P)	Continue Last I-frame acked Retransmit
IUT_BSY ?RNR(I_CNT:=I_CNT+1,V_R:=(V_R+1) #MOD 128)) (FLAG:=FALSE,FAIL_FL:=FALSE) REPEAT BSY_CHK UNTIL ((FLAG) OR		RNR1_UR(V_R1)	(F) (F)	F=1,I-frame ACKed

(1)
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[2]

Behaviour Description	Label	Constraints Reference	V	Comments
?FA ?RR(FLAG::=TRUE) START T200		RR1_UR(V_R) RR0_UC(V_R)	F=1 P=0	Wait for response to previous poll
?TIMEOUT T200 ?RR ?FNE		RR1_UR(V_R) RRR1_UR(V_R)	F=1 F=1, IUT Wait T200 before sending poll	
START T300				
?TIMEOUT T200 !RR(V_A::=RR.N_R)		RR1_NC(V_S)	P=1, poll for busy status	
GOTO L702				
?OTHERWISE(FAIL_FL::=TRUE) ?TIMEOUT T200(FAIL_FL::=TRUE)				

Extended Comments: Q.921 Ref. 5.9.5 - The window rotation test sends I-frames with incrementing sequence numbers to the IUT. Test waits for IUT to ACK each I-frame with RR before sending next I-frame. Test passes when IUT ACKs 128th I-frame with a N(R)=0. The tree IUT_BSY is used to handle the possibility of the IUT entering the busy state during the test. IUT_BSY checks for receipt of RNR with all possible permutations of the P and F bits. If the RNR received ACKs the 128th I-frame sent, the test terminates, else the IUT is polled periodically to determine if the busy condition has been cleared. The tree BSY_CHK is used to monitor the busy state of the IUT. If RR is received, FLAG is set to TRUE indicating that the IUT busy condition has been cleared, the tester then continues transmitting I-frames. If RNR is received the IUT is still busy. The tester sends RR after waiting T200 to continue polling busy status of IUT. If a fail condition occurs during the busy status check, FAIL_FL is set to TRUE to signal the main test body.

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_N02				
Identifier: DS70_N02				
Purpose: Verify that the IUT ignores an I frame that is not properly bounded by two flags received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[UNBOUNDED_FRAME] +DL70_PREAMBLE ! I_NF(V_A::=I_NF.N_R)		INF1_NC(V_R,V_S)		unbounded I-frame
#	L900	RR1_NC(V_S)		no response P=1
START Td ?TIMEOUT Td !RR(V_A::=RR.N_R) START T200 ?RR +DL70_VERIFICATION +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		RR1_UR(V_R)	(P)	F=1
?RR		RR1_UC(V_R)	(F)	P=1 Sequence # checked to verify I frame was discarded. F=1
!RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE		RR1_NR(V_S)	(F)	
[NOT (UNBOUNDED_FRAME)]				
#			I	Test not run
Extended Comments: Q.921 Ref. 5.8.4 Conditional Execution - This test is executed only if the IUT corresponds to the PIXIT 30 (UNBOUNDED_FRAME). An unbounded I-frame is created by sending a frame with information field whose length is determined by the test suite parameter UNBOUNDED_SIZE (PIXIT 30). Received RR should not ACK I-frame transmitted. The sequence number of the				

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received RR following timeout of Td should be checked to verify that the I frame was discarded.

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_N03				
Identifier: DS70_N03				
Purpose: Verify that the IUT ignores a SABME that contains fewer than 5 octets between flags received in Multiple Frame Established state (7.0). IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME_SRT		SABMESRT1_NC		SABME too short
#	L900		(P)	no response
START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE		RR1_UC(V_R) RR1_NR(V_S)		P=1 F=1
			(F)	
Extended Comments: Q.921 Ref. 5.8.4 Short SABME is created by deleting the second octet of the address field but leaving the EA field of the first octet of the address field set to 1.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAL/SYSTEM/SA_N04 Identifier: DS70_N04 Purpose: Verify that the IUT ignores a SABME that contains a frame check sequence (FCS) error received in Multiple Frame Established state (7.0). IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME_FCS START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE	L900	SABMEFCS1_NC RR1_UC(V_R) RR1_NR(V_S)	(F)	FCS error P=1 F=1
Extended Comments: Q.921 Ref. 5.8.4 Error in FCS is created by sending a valid SABME frame and then corrupting the FCS or transmission.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAL/SYSTEM/DS70_N05 Identifier: DS70_N05 Purpose: Verify that the IUT ignores a SABME with a single octet address field received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0). Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME # # START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE	L900	SABMEAL_NC RR1_UC(V_R) RR1_NR(V_S)	(F)	single octet addr field P=1 F=1
Extended Comments: Q.921 Ref. 5.8.4 Single address octet SABME will be created by setting EA field of first address octet to 1 and the second octet of address field will be sent correctly.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_N06				
Identifier:DS70_N06				
Purpose:Verify that the IUT ignores a SABME with a service access point identifier (SAPI) not supported by the receiver, received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME # START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE	L900	SABMES1_NC RRI_UC(V_R) RRI_NR(V_S)	(P)	unsupported SAPI no response P=1 F=1
Extended Comments:Q.921 Ref. 5.8.4 Vendor shall provide a SAPI value that its receiver does not support as an answer to a PIXIT question.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_N07				
Identifier:DS70_N07				
Purpose:Verify that the IUT ignores a frame with seven or more contiguous one bits received in Multiple Frame Established state (7.0). This shall be considered a frame abort condition. The IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !ABORT_FRM START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE ?RR !RR GOTO L900 +DL70_UNEXPECTED GOTO L900 ?OTHERWISE +DL_POSTAMBLE	L900	ABORT_FRM1 RRI_UC(V_R) RRI_NR(V_S)	(P)	no response P=1 F=1
Extended Comments:Q.921 Ref. 2.1.0				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_N08				
Identifier:DS70_N08				
Purpose:Verify that the IUT ignores a SABME with a TEI value not assigned to the IUT received in Multiple Frame Established state (7.0). IUT is expected to remain in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE +ASSIGN_TEI !SABME		SABMETEI1_NC (TEI_No)		SABME with unassigned TEI
#				
#				
START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE	L900		(P)	no response
?ERR !RR GOTO L900		RR1_UC(V_R) RR1_NR(V_S)		P=1 F=1
+DL70_UNEXPECTED GOTO L900				
?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 5.8.4 The SABME sent by the Tester has a TEI value different from the value assigned to the IUT (for Automatic TEI equipment) or different from the value which the vendor claims to support (for Non-automatic TEI equipment).				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS74_N15				
Identifier:DS74_N15				
Purpose:Verify that the IUT does not respond to a frame with an FCS error received in Multiple Frame Established state (7.4). The IUT is expected to remain in the Multiple Frame Established state (7.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !I_FCS		IFCS0_NC(V_R, V_S)		FCS error encoding
#				
#				
START Td ?TIMEOUT Td +DL74_VERIFICATION +DL_POSTAMBLE	L740		(P)	No response rcvd.
?ERR GOTO L740		RR1_NC(V_R)		
+DL74_UNEXPECTED GOTO L740				
?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref. 2.9				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS74_N17				
Identifier:DS74_N17				
Purpose:Verify that the IUT does not respond to an ID_Remove (with Ai=different TEI) received in Multiple Frame Established state (7.4). The IUT is expected to remain in Multiple Frame Established state 7.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE !UI_Mgmt				
#				
START Td ?TIMEOUT Td	L740	ID_Rmv (UNUSED _TEI)	(P)	Ai <> TEI_N , Ai valid
#				
+DL74_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE			(F)	Unmatched Ai
Extended Comments:Q.921 Ref. 5.3.4 This test is for both automatic and non-automatic TEI IUTs. Ai is a valid value (64-126) but not equal to TEI under test.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS74_V18				
Identifier:DS74_V18				
Purpose:Verify that the IUT retransmits an I frame in response to a RR/F=1 response indicating that the peer busy condition has ended, in Multiple Frame Established state (7.4). The IUT is expected to enter Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_SEND_A_IFRAME] +DL70_PREAMBLE +DL74_II_SETUP				
#				
#				
#				
START Td ?RR				
!RR START T200	L741	RR1_UC(V_R) RR1_NR(V_S)	(P)	Set peer busy with one I frame outstanding
?I	L742	IO_UC(V_S, N_R) RR0_NR(N_R)		F=1
#				
!RR(N_R:=V_S+1) +DL70_VERIFICATION +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L742 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL74_UNEXPECTED GOTO L741 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT (CAN_SEND_A_IFRAME)]				
#			I	Test not run
Extended Comments:Q.921 Ref. 5.6.5				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS80_N15				
Identifier: DS80_N15				
Purpose: Verify that the IUT does not respond to a frame with an FCS error received in Timer Recovery state (8.0). The IUT is expected to remain in the Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL80_PREAMBLE ! I_FCS		IFCS0_NC(V_R, V_S)		FCS error encoding
#				
START Td ?TIMEOUT Td	L800		(P)	No response received
#				
+DL80_VERIFICATION +DL_POSTAMBLE ?RR GOTO L800 +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE		RR1_NC(V_R)		
Extended Comments: Q.921 Ref. 2.9				

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS84_N15				
Identifier: DS84_N15				
Purpose: Verify that the IUT does not respond to a frame with an FCS error received in Timer Recovery state (8.4). The IUT is expected to remain in the Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL84_PREAMBLE ! I_FCS		IFCS0_NC(V_R, V_S)		FCS error encoding
#				
START Td ?TIMEOUT Td	L840		(P)	No response rcvd.
#				
+DL84_VERIFICATION +DL_POSTAMBLE ?RR GOTO L840 +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE		RR1_NC(V_R)		
Extended Comments: Q.921 Ref. 2.9				

Test Case Dynamic Behaviour					
Reference:LAPD/SYSTEM/DS84_N17					
Identifier:DS84_N17					
Purpose:Verify that the IUT does not respond to an ID_Remove (Ai-different TEI) received in Timer Recovery state (8.4). The IUT is expected to remain in state 8.4.					
Default:					
#	Behaviour Description	Label	Constraints Reference	V	Comments
	+DL84_PREAMBLE !UI_Mgmt		ID_Emv (UNUSED _TEI)		Ai <> TEI_N , Ai valid
	START Td ?TIMEOUT Td +DL84_VERIFICATION +DL_POSTAMBLE +DL84_UNEXPECTED GOTO L840 ?OTHERWISE +DL_POSTAMBLE	L840		(P)	
				(F)	
Extended Comments:Q.921 Ref. 5.3.4 This test is executed for both automatic and non-automatic TEI IUTs. Ai is a valid value (64-126) , but not equal to TEI under test.					

Test Case Dynamic Behaviour					
Reference:LAPD/SYSTEM/DS40_1_1 Identifier:DS40_1_1 Purpose:Tests the normal initialisation of multiple-frame operation. Verify that the IUT 1) is able to initiate link establishment in TEI Assigned state (4.0), and 2) is able to send an I frame after entering Multiple Frame Established state (7.0). Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[Q931SW_PRESENT] +DL40_PREAMBLE !UI START T1				
#T1	?SABME !UA(V_R::=0,V_S::=0) START ?I(V_S:=V_S+1)	L700 L701	UIO_1 SABMEL_UC UAL_NR IO_UC(V_S, V_R) RR0_NR(V_S)		Q.931 Setup msg. P=1 F=1 P=0 F=0
#	!ERR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]			(F) (F) (F) (F) (F)	I Test not run
Extended Comments:Q.921 Ref. 5.5.1.1.2 Executed only if Q.931 software is present in IUT.					

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS40_1_2				
Identifier: DS40_1_2				
Purpose: Tests the IUT's response to the loss of a UA frame. Verify that the IUT retransmits a SABME/P=1 after receiving no response to a first SABME/P=1 sent in TEI Assigned state (4.0)				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL40_PREAMBLE !UI START T1		UI0_1		Q931 Setup msg. P=1
?SABME START Td	L700	SABME1_UC		
?SABME !UA START Td ?I(V_S:=V_S+1)	L701	SABME1_UC UA1_NR T0_UC(V_S, V_R)		P=1 F=1 P=0
!RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]	L702	RR0_NR(V_S)	(F)	F=0
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run

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Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS40_1_3				
Identifier: DS40_1_3				
Purpose: Verify that the IUT does not respond after receiving a DM/F=1 in response to a first SABME/P=1 sent in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL40_PREAMBLE !UI START T1		UI0_1		Q931 Setup msg. P=1
?SABME !DM !DISC START T200 ?DM +DL40_VERIFICATION +DL_POSTAMBLE GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]	L700	SABME1_UC DM1_NR DISC1_NC DM1_UR	(P)	P=1 P=1 F=1
	L701			
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	
			I	Test not run

Extended Comments: Q.921 Ref. 5.5.1.2
Executed only if Q.931 software is present in IUT.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_1_4 Identifier:DS40_1_4 Purpose:Tests the IUT's response to the inability of the network to respond to a SABME/P=1 received in TEI Assigned state (4.0). Verify that the IUT retransmits a SABME/P=1 after receiving no response. The IUT is expected to remain in TEI Assigned state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL40_PREAMBLE (RC::=0) !UI START T1 ?SABME [RC<N200] (RC:: #-RC+1) GOTO L700 ?SABME [RC=N200] +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]	L700 L701	UI0_1 SABME1_UC SABME1_UC	 (P) (F) (F) I	Q.931 Setup msg. P=1 P=1 Test not run
Extended Comments:Q.921 Ref. 5.5.1.3 Executed only if Q.931 software is present in IUT.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_1_5 Identifier:DS70_1_5 Purpose:Verify that the IUT sends a UA/F=1 in response to a SABME/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after sending the UA/F=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !SABME START T200 ?UA (V_S::=0,V_R::=0,V_A::=0) +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	SABME1_NC UAL_UR	(P) (F) (F)	P=1 F=1
Extended Comments:Q.921 Ref. 5.5.1.2 NOTE *** Identical to DL70_V08.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS40_2_1 Identifier: DS40_2_1 Purpose: Tests unnumbered frame transfer on broadcast data link. Verify that the IUT is able to send an I frame after entering Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established after receiving RR/F=0. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL40_PREAMBLE !UI START T1				
# ?SABME !UA(V_R::=0,V_S::=0) START	L700	UI0_1 SABME1_UC UAL_NR		Q.931 Setup msg. P=1 F=1
#T1 ?I(V_S::=V_S+1)	L701	I0_UC(V_S, V_R)		P=0
# !RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L701 +DL70_UNEXPECTED ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL40_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE +DL_POSTAMBLE ?TIMEOUT T1		RR0_NR(V_S)	(P)	F=0
[NOT(Q931SW_PRESENT)]				
#				Test not run
Extended Comments: Q.921 Ref. 5.5.1.2 Executed only if Q.931 software is present in IUT.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_2_2 Identifier: DS70_2_2 Purpose: Verify that the IUT cycles through 128 sequence numbers during I frame transfer in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL70_PREAMBLE (I_CNT::=0) !I START T1				
# (V_R::=(V_R+1)MOD 128) ?RR START T1 ?I(V_S::=(V_S+1)MOD 128)	L700	IN10_NC(V_R,V_S)		P=0, Rel
!RR (I_CNT::=I_CNT+1) [I_CNT<=128] GOTO L700 [I_CNT>128] +DL70_VERIFICATION +DL_POSTAMBLE GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?I(V_S::=(V_S+1)MOD 128)	L701 L702 L703	RR0_UR(V_R) IN20_UC(V_S,V_R) RR0_NR(V_S)	(P)	P=0, Rel Comp
# GOTO L703 +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE ?I(V_S::=(V_S+1)MOD 128)		IN20_UC(V_S,V_R)	(F)	P=0, Rel Comp
[NOT(Q931SW_PRESENT)]				
#			(F)	Test not run
Extended Comments: Q.921 Ref. 5.6.7.				

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Executed only if Q.931 software is present in IUT.

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_2_3				
Identifier:DS70_2_3				
Purpose:Verify that the IUT sends an RR/F=0 in response to I/P=0 sent as a valid response to an IUT I frame in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending an RR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL70S_PREAMBLE ! I START T200				
(V_R:=V_R+1) ?RR START T1 ? I	L701 L702	IN10_NC(V_R,V_S)		P=0, Release
(V_S:=V_S+1) +DL70S_VERIFICATION +DL_POSTAMBLE GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]		RR0_UR(V_R) IN20_UC(V_S,V_R)	(P)	F=0 P=0, Rel Comp
			(F)	
			(F)	
			(F)	
			(F)	
			(F)	Test not run
Extended Comments:Q.921 Ref. 5.6.3.2. Executed only if Q.931 software is present in IUT.				

Test Case Dynamic Behaviour

Reference:LAPD/SYSTEM/DS80_2_4

Identifier:DS80_2_4

Purpose:Verify that the IUT sends an RR/F=0 in response to I/P=0 in Timer Recovery state (8.0). The IUT is expected to enter Multiple Frame Established state after the tester acknowledges the outstanding I/P=0.

Default:

Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL80S_PREAMBLE (N_R:=V_S-1) ! I START T200				
(V_R:=V_R+1) ?RR START T1 ?RR !RR START Td ? I	L800 L801 L802	IN60_NC(V_R,N_R) RR0_UR(V_R) RR1_UC(V_R) RR1_NR(V_S) IN70_UC(V_S,V_R)		P=0, Release
(V_S:=V_S+1) !RR		RR0_NR(V_S)	(P)	F=0
+DL70_VERIFICATION				
+DL_POSTAMBLE +DL80_UNEXPECTED GOTO L802 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE			(F)	
? I			(F)	
!RR START Td ? I	L803	IN41_UC(V_S,V_R) RR1_NR(V_S) IN20_UC(V_S,V_R)		P=1 F=1 P=0
(V_S:=V_S+1) !RR		RR0_NR(V_S)	(P)	F=0
+DL70_VERIFICATION				
+DL_POSTAMBLE +DL80_UNEXPECTED				

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Test Case Dynamic Behaviour
<p>Reference:LAPD/SYSTEM/DS70_3_1</p> <p>Identifier:DS70_3_1</p> <p>Purpose:Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to enter TEI Assigned state after sending the UA/F=1.</p> <p>Default:</p>

Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !DISC START T200 ?OA +DL40_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	DISC1_NC UAI_UR	(P) (F) (F)	P=1 F=1

Extended Comments: Q.921 Ref. 5.5.3.2
NOTE *** Identical to DL70_V12.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_4_1 Identifier: DS70_4_1 Purpose: Verify that the IUT does not respond to an I/P=0 containing an FCS error received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR START T200 ?RR !I	L700	RR1_NC(V_S) RR1_UR(V_R) IFC50_NC(V_R, V_S)		P=1 F=1 P=0, Release w/ FCS error
START Td ?TIMEOUT Td +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L701		(P)	
			(F)	
			(F)	
			(F)	

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Extended Comments: Q.921 Ref. 2.7, 2.9

Extended Comments:Q.921 Ref. 2.7, 2.9

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LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_4_2a				
Identifier:DS70_4_2a				
Purpose:Test the IUT's response to I/P=0 loss in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after the tester confirms loss of I frame.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL70_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR START T1 ?I		IN10_NC(V_R,N_R)		P=0, Release
#				
START Td ?RR START T1 ?RR !RR START Td ?I(V_S:=V_S+1) !RR	L700 L701 L702 L703 L704	RR0_UR(V_R) IN20_UC(V_S,V_R) RR1_UC(V_R) RR1_UC(V_R) RR1_NR(V_S) IN20_UC(V_S,V_R) RR0_NR(V_S)		P=0 P=0, Rel Comp P=1 P=1 F=1 P=0, Rel Comp F=0
#				
+DL70_VERIFICATION				
#				
+DL_POSTAMBLE +DL70_UNEXPECTED GOTO L704 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L703 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ?OTHERWISE +DL_POSTAMBLE			(F) (F) (F) (F) (F) (F)	
#				

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Behaviour Description	Label	Constraints Reference	V	Comments
?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Tl +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)] #			(F) (F) (F) (F) (F)	I Test not run

Extended Comments: Q.921 Ref. 5.6.3.
Executed only if Q.931 software is present in IUT and IUT polls using RR command.

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Test Case Dynamic Behaviour					
Reference:LAPD/SYSTEM/DS70_4_2b Identifier:DS70_4_2b Purpose:Test the IUT's response to I/P=0 loss in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after the tester confirms loss of I frame. Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[Q931SW PRESENT] +DL70_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR START T1 ?I	L700 L701	IN10_NC(V_R,N_R)		P=0,Release
#	START Td ?I START T1	L702	RR0_UR(V_R) IN20_UC(V_S,V_R)		F=0 P=1, Rel Comp
#	?RR(V_S:=V_S+1) !RR	L703	IN41_UC(V_S,V_R) RR1_UC(V_R) RR1_NR(V_S)	(F)	P=1 P=1 F=1
# +DL70S_VERIFICATION	+DL_POSTAMBLE- +DL70_UNEXPECTED GOTO L703 ? OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ? OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ? OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED			(F) (F) (F) (F) (F) (F) (F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT (Q931SW_PRESENT)]			(F) (F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.6.3.
 Executed only if Q.931 software is present in IUT
 and IUT polls using I command frame.

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4 Abstract Test Suite - Part I

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Test Case Dynamic Behaviour

	Behaviour Description	Label	Constraints Reference	V	Comments
#	[Q931SW_PRESENT] +DL70_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR START T1 ? I	L700 L701	IN10_NC(V_R,V_S) RR0_UR(V_R) IN20_UC(V_S,V_R)		P=0, Release F=0 P=0, Rel Comp
#	START Td ?RR(V_S:=V_S+1) ! RR +DL70_VERIFICATION +DL_POSTAMBLE 2I(V_S:=V_S+1)	L702	RR1_UC(V_R) RR1_NR(V_S)	(P)	P=1 F=1
#	!REJ +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200		IN41_UC(V_S,V_R) REJ1_NR(V_S)	(P) (F) (F) (F) (F) (F) (F)	P=1, Rel Comp F=1

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4 Abstract Test Suite - Part I

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4 Abstract Test Suite - Part I

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE (NOT(Q931SW_PRESENT)) #			I	Test not run

Extended Comments: Q.921 Ref. 5.6.3, 5.6.4, 5.8.3
 Executed only if Q.931 software is present in IUT.

Test Case Dynamic Behaviour					
Reference:LAPD/SYSTEM/DS70_4-4 Identifier:DS70_4-4 Purpose:Verify that the IUT recovers from the loss of an RR in Multiple Frame Established state (7.0) (tester retransmits I frame and IUT polling using I command). The IUT is expected to remain in Multiple Frame Established state after sending a REJ/F=I in response to the retransmitted I/P=I. Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[Q931SW_PRESENT] +DL70_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR (N_S::=V_R-1) ! START T200 ?REJ +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]	L700 	IN30_NC(V_R,V_S) RR0_UR(V_R) IN51_NC(N_S,V_S) REJ1_UR(V_R)	 	P=0, Rel Comp F=0 P=1, Rel Comp
#				I	Test not run

Extended Comments: Q.921 Ref. 5.6.3, 5.6.4, 5.8.1
Executed only if Q.931 software is present in IUT and IUT polls using I command frame.

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS74_5_1				
Identifier: DS74_5_1				
Purpose: Verify that the IUT sends a queued I/P=0 after receiving an RR/F=0 or F=1 in the Peer Receiver Busy state (7.4). The IUT is expected to enter Multiple Frame Established state after sending the outstanding I/P=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[Q931SW_PRESENT] +DL74S_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR START T1 ?RR !RR START T3 ?I(V_S:=V_S+1) !RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L742 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE ?TIMEOUT T1 !RR START Td ?I(V_S:=V_S+1) !RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L743 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE GOTO L741 ?OTHERWISE	L740 L741 L742	IN10_NC(V_R,V_S) RR0_UR(V_R) RR1_UC(V_R) RR1_NR(V_S) IN20_UC(V_S,V_R) RR0_NR(V_S)	(P)	P=0, Release F=0 P=1 F=1 P=0, Rel Comp F=0
+DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)] #	L700	RR1_NC(V_S) RR1_UR(V_R)	(F)	F=1 F=1

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Behaviour Description	Label	Constraints Reference	V	Comments
+DL_POSTAMBLE +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)] #			(F) (F) I	Test not run
Extended Comments: Q.921 Ref. 5.6.5, 5.6.6, 5.6.7. Executed only on IUTs with Q.931 software present.				

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_5_2				
Identifier: DS70_5_2				
Purpose: Verify that the IUT sends an RR/F=1 in response to a RR/P=1 received in Multiple Frame Established state (7.0). The IUT is expected to remain in Multiple Frame Established state after sending RR/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR START T200 ?RR +DL70_VERIFICATION +DL_POSTAMBLE GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RR1_NC(V_S) RR1_UR(V_R)	(F) (F)	F=1 F=1
Extended Comments: Q.921 Ref. 3.6.6. NOTE *** Identical to DL70_V20.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DSL0_7_1				
Identifier:DSL0_7_1				
Purpose:Verify that the IUT 1) enters TEI Assigned state after receiving an Id Assigned frame in response to an Id Request, and 2) sends an Id Check Response in response to an Id Check Request. The IUT is expected to enter TEI Assigned state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT:UI_Mgmt>		ID_Req		Init ID Request
START Topr ?UI_Mgmt (Ri_No::=UI_Mgmt.Ri) !UI_Mgmt	L100	ID_Req ID_Assign (Ri_No) ID_chk_req (TEI_N)		TEI value = TEI_N
!UI_Mgmt START T201				
?UI_Mgmt	L101	ID_chk_resp (TEI_N)	(P)	
+DL40_VERIFICATION +DL_POSTAMBLE				
+DL10_UNEXPECTED GOTO L101				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T201			(F)	
+DL_POSTAMBLE				
+DL10_UNEXPECTED GOTO L100				
?OTHERWISE			(I)	
+DL_POSTAMBLE				
?TIMEOUT Topr				
+DL_POSTAMBLE			(I)	

extended Comments:0.921 Ref. 5.3.2, 5.3.3, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.3.8, 5.3.9, 5.3.10, 5.3.11, 5.3.12, 5.3.13, 5.3.14, 5.3.15, 5.3.16, 5.3.17, 5.3.18, 5.3.19, 5.3.20, 5.3.21, 5.3.22, 5.3.23, 5.3.24, 5.3.25, 5.3.26, 5.3.27, 5.3.28, 5.3.29, 5.3.30, 5.3.31, 5.3.32, 5.3.33, 5.3.34, 5.3.35, 5.3.36, 5.3.37, 5.3.38, 5.3.39, 5.3.40, 5.3.41, 5.3.42, 5.3.43, 5.3.44, 5.3.45, 5.3.46, 5.3.47, 5.3.48, 5.3.49, 5.3.50, 5.3.51, 5.3.52, 5.3.53, 5.3.54, 5.3.55, 5.3.56, 5.3.57, 5.3.58, 5.3.59, 5.3.60, 5.3.61, 5.3.62, 5.3.63, 5.3.64, 5.3.65, 5.3.66, 5.3.67, 5.3.68, 5.3.69, 5.3.70, 5.3.71, 5.3.72, 5.3.73, 5.3.74, 5.3.75, 5.3.76, 5.3.77, 5.3.78, 5.3.79, 5.3.80, 5.3.81, 5.3.82, 5.3.83, 5.3.84, 5.3.85, 5.3.86, 5.3.87, 5.3.88, 5.3.89, 5.3.90, 5.3.91, 5.3.92, 5.3.93, 5.3.94, 5.3.95, 5.3.96, 5.3.97, 5.3.98, 5.3.99, 5.3.100, 5.3.101, 5.3.102, 5.3.103, 5.3.104, 5.3.105, 5.3.106, 5.3.107, 5.3.108, 5.3.109, 5.3.110, 5.3.111, 5.3.112, 5.3.113, 5.3.114, 5.3.115, 5.3.116, 5.3.117, 5.3.118, 5.3.119, 5.3.120, 5.3.121, 5.3.122, 5.3.123, 5.3.124, 5.3.125, 5.3.126, 5.3.127, 5.3.128, 5.3.129, 5.3.130, 5.3.131, 5.3.132, 5.3.133, 5.3.134, 5.3.135, 5.3.136, 5.3.137, 5.3.138, 5.3.139, 5.3.140, 5.3.141, 5.3.142, 5.3.143, 5.3.144, 5.3.145, 5.3.146, 5.3.147, 5.3.148, 5.3.149, 5.3.150, 5.3.151, 5.3.152, 5.3.153, 5.3.154, 5.3.155, 5.3.156, 5.3.157, 5.3.158, 5.3.159, 5.3.160, 5.3.161, 5.3.162, 5.3.163, 5.3.164, 5.3.165, 5.3.166, 5.3.167, 5.3.168, 5.3.169, 5.3.170, 5.3.171, 5.3.172, 5.3.173, 5.3.174, 5.3.175, 5.3.176, 5.3.177, 5.3.178, 5.3.179, 5.3.180, 5.3.181, 5.3.182, 5.3.183, 5.3.184, 5.3.185, 5.3.186, 5.3.187, 5.3.188, 5.3.189, 5.3.190, 5.3.191, 5.3.192, 5.3.193, 5.3.194, 5.3.195, 5.3.196, 5.3.197, 5.3.198, 5.3.199, 5.3.200, 5.3.201, 5.3.202, 5.3.203, 5.3.204, 5.3.205, 5.3.206, 5.3.207, 5.3.208, 5.3.209, 5.3.210, 5.3.211, 5.3.212, 5.3.213, 5.3.214, 5.3.215, 5.3.216, 5.3.217, 5.3.218, 5.3.219, 5.3.220, 5.3.221, 5.3.222, 5.3.223, 5.3.224, 5.3.225, 5.3.226, 5.3.227, 5.3.228, 5.3.229, 5.3.230, 5.3.231, 5.3.232, 5.3.233, 5.3.234, 5.3.235, 5.3.236, 5.3.237, 5.3.238, 5.3.239, 5.3.240, 5.3.241, 5.3.242, 5.3.243, 5.3.244, 5.3.245, 5.3.246, 5.3.247, 5.3.248, 5.3.249, 5.3.250, 5.3.251, 5.3.252, 5.3.253, 5.3.254, 5.3.255, 5.3.256, 5.3.257, 5.3.258, 5.3.259, 5.3.260, 5.3.261, 5.3.262, 5.3.263, 5.3.264, 5.3.265, 5.3.266, 5.3.267, 5.3.268, 5.3.269, 5.3.270, 5.3.271, 5.3.272, 5.3.273, 5.3.274, 5.3.275, 5.3.276, 5.3.277, 5.3.278, 5.3.279, 5.3.280, 5.3.281, 5.3.282, 5.3.283, 5.3.284, 5.3.285, 5.3.286, 5.3.287, 5.3.288, 5.3.289, 5.3.290, 5.3.291, 5.3.292, 5.3.293, 5.3.294, 5.3.295, 5.3.296, 5.3.297, 5.3.298, 5.3.299, 5.3.300, 5.3.301, 5.3.302, 5.3.303, 5.3.304, 5.3.305, 5.3.306, 5.3.307, 5.3.308, 5.3.309, 5.3.310, 5.3.311, 5.3.312, 5.3.313, 5.3.314, 5.3.315, 5.3.316, 5.3.317, 5.3.318, 5.3.319, 5.3.320, 5.3.321, 5.3.322, 5.3.323, 5.3.324, 5.3.325, 5.3.326, 5.3.327, 5.3.328, 5.3.329, 5.3.330, 5.3.331, 5.3.332, 5.3.333, 5.3.334, 5.3.335, 5.3.336, 5.3.337, 5.3.338, 5.3.339, 5.3.340, 5.3.341, 5.3.342, 5.3.343, 5.3.344, 5.3.345, 5.3.346, 5.3.347, 5.3.348, 5.3.349, 5.3.350, 5.3.351, 5.3.352, 5.3.353, 5.3.354, 5.3.355, 5.3.356, 5.3.357, 5.3.358, 5.3.359, 5.3.360, 5.3.361, 5.3.362,

LAPD Conformance Testing

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_7_2 Identifier:DS10_7_2 Purpose:Verify that the IUT retransmits an ID Request in response to an ID Denied received in Awaiting TEI state. The IUT is expected to enter TEI Assigned state after receiving the ID Assigned. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT:UI_Mgmt>				
# START Topr ?UI_Mgmt (Ri_No::=UI_Mgmt.Ri) !UI_Mgmt START T202	L100	ID_Req ID_Denied (Ri_No,127)		Init ID Request
# (T202value+DELTA) ?UI_Mgmt (Ri_No:: #=UI_Mgmt.Ri) !UI_Mgmt	L101	ID_Req ID_Assign (Ri_No)	(P)	
# +DL40_VERIFICATION +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L101 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L100 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE				TEI value is TEI_N
Extended Comments:Q.921 Ref. 5.3.2, 5.3.2.1				
			(F)	
			(F)	
			(I)	
			(I)	

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Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_7_3 Identifier:DS40_7_3 Purpose:Verify that the IUT sends an ID Check response in response to an ID Check Request(127) received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state after sending the ID Check Response. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !UI_Mgmt START T201		ID_chk_req (127)		TEI value set to 127
# ?UI_Mgmt +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T201 +DL_POSTAMBLE	L400	ID_chk_resp (TEI_N)	(P)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.3.3. NOTE *** identical to DM40_V06				

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS10_7_4				
Identifier: DS10_7_4				
Purpose: Verify that the IUT transmits at least N202 ID_Requests (different Ri#) to T202 Timeout Conditions in TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE <IUT:UI_Mgmt>		ID_Req		Request IUT to send ID Request
#				
#				
START Topr ?UI_Mgmt (Ri_No::=UI_Mgmt.Ri) (ID_REQ_CNT::=1)	L100	ID_Req		Start counting ID Req
#				
#				
START T202 ?UI_Mgmt (Ri_No<>UI_Mgmt. (ID_REQ_CNT::=1)	L102 L103	ID_Req		Retransmitted ID Request
#Ri]				
#				
#=ID_REQ_CNT+1]				
[ID_REQ_CNT<N202] GOTO L102 [ID_REQ_CNT>=N202] START T202 ?UI_Mgmt	L104	ID_Req	(P)	Expected ID Request or
#				
+DL_POSTAMBLE ?TIMEOUT T202			(P)	IUT stops sending ID Request
#				
#				
+DL_POSTAMBLE +DL10_UNEXPECTED GOTO L104 ?OTHERWISE +DL_POSTAMBLE			(F)	
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T202 +DL_POSTAMBLE GOTO L100			(F)	
			(F)	

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Behaviour Description	Label	Constraints Reference	V	Comments
?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE			(I)	
			(I)	
Extended Comments: Q.921 Ref. 5.3.2.1 NOTE *** Identical to DM10_V08				

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS40_8_1_1				
Identifier: DS40_8_1_1				
Purpose: Verify that the IUT does not respond to a SABME/P=1 with an invalid TEI value received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !SABME		SABMETEI1_NC (UNUSED_TEI)		P=1, SABME w/ unused TEI
#				
#				
START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400		(P)	
			(F)	
Extended Comments: Q.921 Ref. 5.3.6.5. Note: it is identical to DS40_N01				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_2_1				
Identifier:DS70_8_2_1				
Purpose:Verify that the IUT sends a SABME in response to an I/P=1 with an invalid C/R value received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE ! I START Td		IL_UC (V_R, V_S)		I w/ C=0
# ?SABME +DL50_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	SABME1_UC	(P)	P=1
			(F)	(F)
			(F)	(F)
Extended Comments:Q.921 Ref. 3.6.1. Note *** identical to DL70_N26.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_8_2_2				
Identifier:DS40_8_2_2				
Purpose:Verify that the IUT does not respond to a SABME/P=1 with an invalid CR value received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !SABME		SABME1_UC		SABME w/ C=0
# START Td ?TIMEOUT Td +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L400		(P)	
			(F)	(F)
Extended Comments:Q.921 Ref. 3.3.2				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_3				
Identifier:DS70_8_3				
Purpose:Verify that the IUT sends a SABME/P=1 in response to a modulo 8 RR/P=1 received in Multiple Frame Established modulo 128 operation state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR START T3	L700	RRB1_NC (.000.B)	(P)	P=1, Mod 8
?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T3 +DL_POSTAMBLE		SABME1_UC		P=1
				(F)
				(F)
Extended Comments:Q.921 Ref. 5.7.				

LAPD Conformance Testing

Test Case Dynamic Behaviour						
Reference:LAPD/SYSTEM/DS70_8_4_1						
Identifier:DS70_8_4_1						
Purpose:Verify that the IUT sends a REJ/F=0 in response to an I/P=0 with N(S)<V(R) received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established Reject Recovery state after sending REJ/F=0.						
Default:						
Behaviour Description	Label	Constraints Reference	V	Comments		
+DL70_PREAMBLE (N_S:=V_R+1) ! # # # #	L700	IO_NC(N_S, V_S)		P=0, N(R) set V(S), N (S) not set to V(R) of IUT		
START T200 ?REJ +DL71_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE			REJ_UR(V_R)	(P)	F=0	
					(F)	
					(F)	
Extended Comments:Q.921 Ref. 5.8.1. NOTE *** Identical to DL70_V47.						

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Reference: LAPD/SYSTEM/DS70_8_4_2

Identifier: DS70_8_4_2

Purpose: Verify that the IUT retransmits an I/P=0 after receiving a REJ/F=0 in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after retransmitting I/P=0

Default:

	Behaviour Description	Label	Constraints Reference	V	Comments
#	[Q931SW_PRESENT] +DL70_PREAMBLE ! I START T200 (V_R:=V_R+1) ?RR START T1 ?I(N_R:=V_S.V_S:=V_S+1) ! I START T200				P=0, Release
#		L700			F=0
		L701			P=0, Rel Comp
#	!REJ START T1 ? I !RR +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]	L702		(P)	P=0, Rel Comp F=0
				(F)	
				(F)	
				(F)	
				(F)	
				(F)	
				(F)	
#				I	Test not run

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Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_8_4_3				
Identifier: DS70_8_4_3				
Purpose: Verify that the IUT retransmits an I/P=0 after receiving a REJ/P=1 in Timer Recovery state (8.0). The IUT is expected to enter Multiple Frame Established state after retransmitting I/P=0				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
# [Q931SW_PRESENT] +DL70_PREAMBLE ! I START T200 (V_R := V_R+1) ?RR START T1 ? I (N_R := V_S, V_S := V_S+1)		IN10_NC (V_R, N_R)		P=0, Release
# START Td ? I	L700	RR0_UR (V_R)		F=0
# !REJ START T1 ? I	L701	IN20_UC (V_S, V_R)		P=0, Rel Comp
# !RR	L702	IN41_UC (N_R, V_R)		P=1, Rel Comp
# +DL70_VERIFICATION	L703	REJ0_NR (N_R)	(P)	F=0
# +DL_POSTAMBLE		IN20_UC (N_R, V_R)		P=0, Rel Comp
+DL70_UNEXPECTED GOTO L703 ? OTHERWISE +DL_POSTAMBLE ? TIMEOUT T1 +DL_POSTAMBLE		RR0_NR (V_S)		F=0
?RR !REJ START T1 ? I				
# !RR	L704	RR1_UC (V_R)		P=1
# +DL70_VERIFICATION		REJ0_NR (N_R)		F=0
# +DL_POSTAMBLE		IN20_UC (N_R, V_R)	(P)	P=0, Rel Comp
+DL70_UNEXPECTED		RR0_NR (V_S)		F=0

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Extended Comments:Q.921 Ref. 5.6.4.
Executed only if C

Behaviour Description	Label	Constraints Reference	V	Comments
GOTO L704 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L702 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(Q931SW_PRESENT)]			(F) (F) (F) (F) (F) (F)	
#			I	Test not run

Extended Comments: Q.921 Ref. 5.6.4.
Executed only if 0.931 software is present in IUT.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_5_1b				
Identifier:DS70_8_5_1b				
Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR/F=1 , with an N(R) error, received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after sending SABME/P=1 and receiving the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R::=V.S+2) !RR START Td				
?SABME !UA +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	RR1_NR(N_R) SABME1_UC UA1_NR	(P) (F) (F)	F=1, N(R) Error P=1 F=1
#				
Extended Comments:Q.921 Ref. 5.8.5. Note*** identical to DL70_N03				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS70_8_5_1c				
Identifier: DS70_8_5_1c				
Purpose: Verify that the IUT sends a SABME/P=1 in response to an RR/P=0, with an N(R) error, received in Multiple Frame Established state (7.0). The IUT is expected to enter Multiple Frame Established state after sending SABME/P=1 and receiving the UA/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_R:=V_S+2) !RR START Td				
# ?SABME !UA +DL70_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	RR0_NR(N_R) SABME1_UC UAL_NR	 (P)	 F=0, N(R) Error F=1 F=1
Extended Comments: Q.921 Ref. 5.8.5. Note *** identical to DL70_N04				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference: LAPD/SYSTEM/DS40_8_6_1				
Identifier: DS40_8_6_1				
Purpose: Verify that the IUT sends a DM/F=1 in response to a DISC/P=1 received in TEI Assigned state (4.0). The IUT is expected to be in TEI Assigned state (4.0) after sending DM/F=1.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE !DISC START T200 ?DM +DL40_VERIFICATION +DL_POSTAMBLE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L400	DISC1_NC DM1_UR	 (P)	 P=1 F=1
Extended Comments: Q.921 Ref. 5.5.3.2. NOTE *** Identical to DL40_V08.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS40_8_6_2				
Identifier:DS40_8_6_2				
Purpose:Verify that the IUT does not respond to an I/P=0, RR/P=1 or RNR/P=1 received in TEI Assigned state (4.0). The IUT is expected to remain in TEI Assigned state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL40_PREAMBLE ! I START T200 (T200value*2)	L400	I0_NC (V_R, V_S)		P=0
?TIMEOUT T200 !RR START T200 (T200value*2) ?TIMEOUT T200 !RNR START T200 # (T200value*2)	L401	RR1_NC (V_R) RNR1_NC (V_R)		P=1 P=1
?TIMEOUT T200 +DL40_VERIFICATION +DL_POSTAMBLE GOTO L402 ?OTHERWISE +DL_POSTAMBLE GOTO L401 ?OTHERWISE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE +DL_POSTAMBLE	L402		(P)	
			(F)	
			(F)	
			(F)	

Extended Comments:0.921 Ref. 5.5.4.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS10_8_7				
Identifier:DS10_8_7				
Purpose:Verify that the IUT does not respond to an I/P=0, RR/P=1, UI/P=0, DISC/P=1 or SABME/P=1 received in TEI Unassigned state (1.0). The IUT is expected to remain in TEI Unassigned state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL10_PREAMBLE ! I START T200 (T200value*2)	L400	I0_NC (V_R, V_S)		P=0
?TIMEOUT T200 !RR START T200 (T200value*2) ?TIMEOUT T200 !UI START T200 # (T200value*2)	L401	RR1_NC (V_R) UI0_1		P=1 P=0
?TIMEOUT T200 !DISC START T200 # (T200value*2)	L402	DISC1_NC		P=1
?TIMEOUT T200 !SABME START T200 # (T200value*2)	L403	SABME1_NC		P=1
?TIMEOUT T200 # +DL10_VERIFICATION # +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L404 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L403 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L402 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED GOTO L401 ?OTHERWISE +DL_POSTAMBLE +DL10_UNEXPECTED	L404		(F)	
			(F)	
			(F)	
			(F)	
			(F)	

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
GOTO L400 ?OTHERWISE +DL_POSTAMBLE			(F)	
Extended Comments:Q.921 Ref.				

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_8_1a Identifier:DS70_8_8_1a Purpose:Verify that the IUT sends a SABME/P=1 in response to a 3 Octet undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !UNDEF START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	UNDEF2_NC SABME1_UC	(P)	P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1. NOTE *** Identical to DL70_N26.				

LAPD Conformance Testing

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Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_8_1b Identifier:DS70_8_8_1b Purpose:Verify that the IUT sends a SABME/P=1 in response to a 4 Octet undefined command received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !UNDEF START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	UNDEF3_NC SABME1_UC	(P)	P=1 (F) (F)
Extended Comments:Q.921 Ref. 5.7.1.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_8_2_1 Identifier:DS70_8_8_2_1 Purpose:Verify that the IUT sends a SABME/P=1 in response to a 6 Octet DISC received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1.				
Default:	Behaviour Description	Label	Constraints Reference	V
	+DL70_PREAMBLE :DISC_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	DISC_TL2_NC SABME1_UC	P=1 (P) (F) (F)
Extended Comments:Q.921 Ref. 5.7.1.				

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_8_8_2_2 Identifier:DS70_8_8_2_2 Purpose:Verify that the IUT sends a SABME/P=1 in response to an RR of incorrect length received in Multiple Frame Established state (7.0). The IUT is expected to enter Awaiting Establishment state after sending SABME/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RR_TL START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700	RR_TL1_NC (V_S) SABME1_UC	(P) (F) (F)	P=1 P=1
#				

Extended Comments:Q.921 Ref. 5.7.1.
 NOTE*** Identical to DL70_N22.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DST0_9_1 Identifier:DS70_9_1 Purpose:Verify that the IUT's T200 between retransmission of frames is within an acceptable tolerance of its value. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RNR START Td ?RR START T200 ?RR READTIMER T200 (temp) (CHECKTIMER(temp, +DL_POSTAMBLE [CHECKTIME(T200_tol)] #T200value,T200_tol)) #T200value,T200_tol)]) +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L700 L701	RNR0_NR(V_S) RR1_UC(V_R) RR1_UC(V_R)	 (P) (F) (F) (F) (F)	F=0 P=1 P=1

Extended Comments:O.921 Ref. 5.9.1.

LAPD Conformance Testing

Test Case Dynamic Behaviour				
Reference:LAPD/SYSTEM/DS70_9_2 Identifier:DS70_9_2 Purpose:Verify that the IUT implements N200, the maximum number of retransmissions of a frame. The IUT is expected to enter Awaiting Establishment state after N200 retransmissions of RR/P=1. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RNR START T200 (RC::=1) ?RR [RC<N200] START T200 (RC::=RC+1) GOTO L700 ?RR [RC=N200] START Td ?SABME +DL51_VERIFICATION +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L701 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL70_UNEXPECTED GOTO L700 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L700	RNR0_NR(V_S)		F=0
		RR1_UC(V_R)		P=1
		RR1_UC(V_R)	(F)	P=1
	L701	SABME1_UC		P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments:Q.921 Ref. 5.9.2.				

LAPD Conformance Testing

Test Step Dynamic Behaviour			
Reference:LAPD/LIBRARY/DL_MFOINIT Identifier:DL_MFOINIT Objective:Procedure to initialize the IUT to either TEI assigned State (4.0) or Multiple Frame Established state (7.0) depending on the answer to a PIXIT question for the preferred 'idle state'. This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5). Default:			
Behaviour Description	Label	Constraints Reference	V
[IDLE_STATE4] +DL4_INIT [NOT(IDLE_STATE4)] +DL7_INIT			
Extended Comments:A PIXIT question will select the idle state to be either state 4.0 or 7.0.			

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL4_INIT Identifier: DL4_INIT Objective: Procedure to initialize the IUT to TEI Assigned State (4.0). This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5) to place the IUT in the selected 'idle state'. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] [CAN_INIT_IDREQ] !UI_Mgmt !UI_Mgmt <IUT:!UI_Mgmt>		ID_Rmv(127) ID_Rmv(127)		Initiate TEI Id Request
# # START Topr ?UI_Mgmt (Ri_No ::= !UI_Mgmt !UI_Mgmt !UI_Mgmt	L000	ID_Req ID_Assign (Ri_No) ID_chk_req (TEI_N)		verify TEI number = TEI_N
# START T201 ?UI_Mgmt +DL40_UNEXPECTED GOTO L001 ?OTHERWISE ?TIMEOUT T201 +DL40_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT Topr [NOT(CAN_INIT_IDREQ)]	L001	ID_chk_resp (TEI_N)	F F F I I	Manual initializat ion require d TEI number must be TEI _N
# # [NOT(TEI_AUTO)] !UI_Mgmt START T201		ID_chk_req (TEI_N)		

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
?UI_Mgmt +DL40_UNEXPECTED GOTO L002 ?OTHERWISE ?TIMEOUT T201	L002	ID_chk_resp (TEI_N)	F F	
Extended Comments: If state 4.0 is selected as the 'idle state' (via PIXIT), it is assumed that the IUT remains in state 4 and does NOT initialize the link. If IUT cannot be forced to send a TEI Id Request when this procedure is executed, then a manual process must be done to bring the IUT into the desired idle state before testing.				

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Behaviour	Description	Label	Constraints Reference	V	Comments
?TIMEOUT Td				F	
<p>Extended Comments: If state 7.0 is selected as the 'idle state', it is assumed that the IUT will automatically initiate the link as soon as it enters TEI assigned state (4.0). If IUT cannot be forced to send a TEI Id Request when this procedure is executed, then a manual process must be done to bring the IUT into the desired idle state before testing.</p>					

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/ASSIGN_AI				
Identifier: ASSIGN_AI				
Objective: Procedure to assign two TEI numbers (>= 64 and <= 126) not currently in use and save the values in the test suite variables Ai_No and Ai_Num.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{(TEI_N=125) OR (TEI_N=126) OR #(TEI_N<64) } (Ai_No::=64, Ai_Num::=65) [TEI_N>63] (Ai_No::=TEI_N+1, Ai_Num:: #=TEI_N+2)				
Extended Comments:				

Test Step Dynamic Behaviour					
Reference:LAPD/LIBRARY/DL7_INIT					
Identifier:DL7_INIT					
Objective:Procedure to initialize the IUT to Multiple Frame Established State (7.0). This routine is executed at the start of a test sequence for Multiple Frame Operations (states 4.0 through 8.5) to place the IUT in the selected 'idle state'.					
Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	[TEL_AUTO] [CAN_INIT_IDREQ] !UI_Mgmt !UI_Mgmt <IUT!UI_Mgmt>		ID_Rmv(127) ID_Rmv(127)		Init TEI Id Request
#	START Topr ?UI_Mgmt (Ri_No:: !UI_Mgmt	L000	ID_Reg		
#	START Td ?SABME !UA (V_R::=0.V_S	L001	ID_Assign (Ri_No) SABME1_UC UA1_NR		P=1 P=1
#	+DL40_UNEXPECTED GOTO L001 ?OTHERWISE ?TIMEOUT Td +DL40_UNEXPECTED GOTO L000 ?SABME ?TIMEOUT Topr [NOT(CAN_INIT_IDREQ)]			F F F I I	
#	[NOT (TEL_AUTO)] START Td ?SABME !UA (V_R::=0.V_S::=0.V_A::=0) +DL40_UNEXPECTED GOTO L002 ?OTHERWISE	L002	SABME1_UC UA1_NR		Manual initialization require d P=1 P=1
#					

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/ASSIGN_TEI				
Identifier:ASSIGN_TEI				
Objective:Procedure to assign a TEI number (≥ 64 and ≤ 126) not currently in use and save the value in the test suite variable TEI_No.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] [(TEI_N=126) OR (TEI_N<64)] # (TEI_No::=64) [TEI_N>63] (TEI_No::=TEI_N+1) [NOT (TEI_AUTO)] (TEI_No::=UNUSED_TEI)				
Extended Comments:Procedure to find an unassigned TEI value for Automatic TEI equipment, or assign the unused TEI value selected by the vendor by PIXIT question..				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL70_WC_SETUP				
Identifier:DL70_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME				
Extended Comments:				

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL71_WC_SETUP				
Identifier:DL71_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME (V_A::=0) +SET_REJ_REC(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL72_WC_SETUP				
Identifier:DL72_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_K1_IFRAME				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL73_WC_SETUP				
Identifier:DL73_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reject Recovery and Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_K1_IFRAME				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL74_WC_SETUP				
Identifier:DL74_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL75_WC_SETUP				
Identifier:DL75_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME (V_A::=0) +SET_REJ_REC(V_A) +SET_PEER_BSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL76_WC_SETUP				
Identifier:DL76_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_K1_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL77_WC_SETUP				
Identifier:DL77_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REQ_REC(V_R) +SET_OWN_BSY +REQ_K1_IFRAME (V_A::=V_R) +SET_PEER_BSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL70_LI_SETUP				
Identifier:DL70_LI_SETUP				
Objective:Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_l_IFRAME				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL71_LI_SETUP				
Identifier:DL71_LI_SETUP				
Objective:Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_l_IFRAME (V_A::=0) +SET_REQ_REC(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL72_LI_SETUP				
Identifier:DL72_LI_SETUP				
Objective:Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_l_IFRAME				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL73_1I_SETUP				
Identifier:DL73_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reject Recovery and Own Busy - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_1_IFRAME				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL74_1I_SETUP				
Identifier:DL74_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_1_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL75_1I_SETUP				
Identifier:DL75_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_1_IFRAME (V_A::=0) +SET_REJ_REC(V_A) +SET_PEER_BSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL76_1I_SETUP				
Identifier:DL76_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_1_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL77_1I_SETUP				
Identifier: DL77_1I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy - with one I frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REQ_REC(V_A) +SET_OWN_BUSY +REQ_1_IFRAME (V_A::V_A) +SET_PEER_BUSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL70_2I_SETUP				
Identifier: DL70_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL71_2I_SETUP				
Identifier: DL71_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME (V_A::0) +SET_REQ_REC(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL72_2I_SETUP				
Identifier: DL72_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BUSY +REQ_2_IFRAME				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL73_2I_SETUP				
Identifier: DL73_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.3 - Multiple Frame Established/Normal/Reject Recovery and Own Busy - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_2_IFRAME				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL74_2I_SETUP				
Identifier: DL74_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL75_2I_SETUP				
Identifier: DL75_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME (V_A::=0) +SET_REJ_REC(V_R) +SET_PEER_BSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference: LAPD/LIBRARY/DL76_2I_SETUP				
Identifier: DL76_2I_SETUP				
Objective: Special procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_2_IFRAME (V_A::=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL77_2I_SETUP				
Identifier:DL77_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver busy/Reject Recovery and Own Busy - with two I frames sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_2_IFRAME (V_A:=0) +SET_PEER_BSY(V_A)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL80_WC_SETUP				
Identifier:DL80_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME +SET_TIMER_REC				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL81_WC_SETUP				
Identifier:DL81_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME +SET_TIMER_REC +SET_REJ_REC(V_R)				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL82_WC_SETUP				
Identifier:DL82_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_K1_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL83_WC_SETUP				
Identifier:DL83_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_K1_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL84_WC_SETUP				
Identifier:DL84_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME +SET_TIMER_REC !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL85_WC_SETUP				
Identifier:DL85_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_K1_IFRAME +SET_TIMER_REC +SET_REJ_REC(V_R) !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL86_WC_SETUP				
Identifier:DL86_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with the Window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_K1_IFRAME +SET_TIMER_REC_OBSY !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL87_WC_SETUP				
Identifier:DL87_WC_SETUP				
Objective:Special procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver busy/Reject Recovery and Own Busy - with the window closed.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_K1_IFRAME +SET_TIMER_REC_OBSY !RNR		RNR0_NC(V_K)		P=0, set peer busy
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL80_1I_SETUP				
Identifier:DL80_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_1_IFRAME +SET_TIMER_REC				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL81_1I_SETUP				
Identifier:DL81_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +REQ_1_IFRAME +SET_TIMER_REC				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL82_1I_SETUP				
Identifier:DL82_1I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_1_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL83_II_SETUP				
Identifier:DL83_II_SETUP				
Objective:Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_1_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL84_II_SETUP				
Identifier:DL84_II_SETUP				
Objective:Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_1_IFRAME +SET_TIMER_REC !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL85_II_SETUP				
Identifier:DL85_II_SETUP				
Objective:Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +REQ_1_IFRAME +SET_TIMER_REC !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL86_II_SETUP				
Identifier:DL86_II_SETUP				
Objective:Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_1_IFRAME +SET_TIMER_REC_OBSY !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL87_I1_SETUP				
Identifier:DL87_I1_SETUP				
Objective:Special procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver busy/Reject Recovery and Own Busy - with one frame sent by IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_1_IFRAME +SET_TIMER_REC_OBSY !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL80_2I_SETUP				
Identifier:DL80_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME +SET_TIMER_REC				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL81_2I_SETUP				
Identifier:DL81_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +REQ_2_IFRAME +SET_TIMER_REC				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL82_2I_SETUP				
Identifier:DL82_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_2_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL83_2I_SETUP				
Identifier:DL83_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery and Own Busy - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +SET_OWN_BSY +REQ_2_IFRAME +SET_TIMER_REC_OBSY				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL84_2I_SETUP				
Identifier:DL84_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+REQ_2_IFRAME +SET_TIMER_REC !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL85_2I_SETUP				
Identifier:DL85_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.5 - Timer Recovery/Peer Receiver Busy/Reject Recovery - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_REJ_REC(V_R) +REQ_2_IFRAME +SET_TIMER_REC !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/DL86_2I_SETUP				
Identifier:DL86_2I_SETUP				
Objective:Special procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy - with two frames sent by the IUT.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+SET_OWN_BSY +REQ_2_IFRAME +SET_TIMER_REC_OBSY !RNR		RNR0_NC(V_R)		P=0, set peer busy
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour			
Reference: LAPD/LIBRARY/DL87_I1_SETUP Identifier: DL87_I1_SETUP Objective: Special procedure used to place the IUT in test state 3.7 - Timer Recovery/Peer Receiver Busy/Reject Recovery and Own Busy - with two frames sent by the IUT. Default:			
Behaviour Description	Label	Constraints Reference	V
+SET_REJ_REC(V_R) +SET_OWN_BUSY +REQ_2_IFRAME +SET_TIMER_REC_OBSCY !RRR		RNRQ NC(V_R)	
#			P=0, set peer busy
Extended Comments:			

Test Step Dynamic Behaviour			
Reference: LAPD/LIBRARY/REQ_K1_IFRAME Identifier: REQ_K1_IFRAME Objective: Special procedure used to request K 1 frames from the IUT and receive the first K 1 frames without acknowledging any. Default:			
Behaviour Description	Label	Constraints Reference	V
<IUT!I> (I_CNT:=0) START Topr ?I # (V_S:=V_S+1, I_CNT:= [I_CNT < K] GOTO L000 (I_CNT = K) ?RR ?OTHERWISE ?TIMEOUT Topr	L000	IO_UC(V_S, V_R) RRL_UC(V_R)	I I I P=1

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LAPD Conformance Testing

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Extended Comments:

Test Step Dynamic Behaviour			
Reference: LAPD/LIBRARY/REQ_1_IFRAME Identifier: REQ_1_IFRAME Objective: Special procedure used to request that the IUT send 1 I frame and leave the I frame unacknowledged. Default:			
Behaviour Description	Label	Constraints Reference	V
<IUT!I> START Topr ?I # (V_S:=V_S+1) ?RR ?OTHERWISE ?TIMEOUT Topr	L000	IO_UC(V_S, V_R) RRL_UC(V_R)	I I I P=1
Extended Comments:			

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/REQ_2_IFRAME				
Identifier:REQ_2_IFRAME				
Objective:Special procedure used to request that the IUT send 2 I frames and leave them unacknowledged.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> <IUT:I> (I_CNT:=0) START Topr ?I # (V_S:=V_S+1,I_CNT:= [I_CNT < 2] GOTO L000 [I_CNT = 2] ?RR ?OTHERWISE ?TIMEOUT Topr </pre>	L000	I0_UC(V_S, V_R)		
Extended Comments:				
		RR1_UC(V_R)	I I I	P=1

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/SET_TIMER_REC				
Identifier:SET_TIMER_REC				
Objective:Special procedure used to place the IUT in Timer Recovery state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> START Td (N_S:=V_S-1) ?RR ?I # +DL70_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT Td </pre>	L000	RR1_UC(V_R) I1_UC(N_S, V_R)		P=1, S8.0 P=1, S8.0
Extended Comments:				
			I I	

Test Step Dynamic Behaviour

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/SET_TIMER_REC_OBSY				
Identifier:SET_TIMER_REC_OBSY				
Objective:Special procedure used to place the IUT in Timer Recovery state when it has previously been placed in own busy state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> START Td (N_S:=V_S-1) ?RNR ?I # +DL70_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT Td </pre>	L000	RNR1_UC(V_R) I1_UC(N_S, V_R)		P=1, S8.0 P=1, S8.0
Extended Comments:				
			I I	

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/SET_PEER_BSY				
Identifier:SET_PEER_BSY(ACKNO:INTEGER)				
Objective:Special procedure used to place the IUT in Peer Receiver Busy condition.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RNR (V_A::=V_S)		RNRL_NC (ACKNO)		P=1,ACKNO=N (R)<=V(S) of IUT
#				
#				
START T200	L000	RNRL_UR(V_R) RR1_UR(V_R)		P=1 P=1
?RNR				
?RR				
+DL70_UNEXPECTED				
GOTO L000				
?OTHERWISE				
?TIMEOUT T200				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/SET_REJ_REC				
Identifier:SET_REJ_REC(ACKNO:INTEGER)				
Objective:Special procedure used to place the IUT in Reject Recovery state.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S::=V_R+1)		I1_NC(N_S, ACKNO)		P=1,ACKNO=N (R)<=V(S) of IUT
!I				
#				
#				
START T200	L000	REJL_UR(V_R) RR1_UC(V_R) RNRL_UC(V_R)		P=1 P=1 P=1
?REJ			I	
?RR			I	
?RNR				
+DL70_UNEXPECTED				
GOTO L000				
?OTHERWISE				
?TIMEOUT T200				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/LIBRARY/SET_OWN_BSY				
Identifier:SET_OWN_BSY				
Objective:Procedure used to place the IUT in the Own Busy condition.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<IUT:RNR> START Topr ?RNR # +DL70_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT Topr	L000	RNR0_UR(V_R)		F=0, N(R)=V (R)
Extended Comments:1) Test cases using this procedure can be tested only if IUT is capable of setting itself into Own Busy state.				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL10_PREAMBLE				
Identifier:DL10_PREAMBLE				
Objective:Procedure to bring the IUT into TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO][CAN_INIT_IDREQ] !UI_Mgmt [TRUE]		ID_Rmv(127)		
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL10S_PREAMBLE				
Identifier:DL10S_PREAMBLE				
Objective:Procedure used to place the IUT into TEI Unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[TEI_AUTO] !UI_Mgmt (RC::=0) START T202 (T202value+DELTA) ?TIMEOUT T202 ?UI_Mgmt [RC<=N202*3] (RC::=RC+1) GOTO L100 [RC>N202*3] # ?OTHERWISE +DL_POSTAMBLE [NOT(TEI_AUTO)] #	L100	ID_Rmv(127) ID_Req	 I (I) I	 Not stable in state 1 Test not run
Extended Comments:N202*3 assumes that a typical configuration of TE will set up 3 TEI numbers				

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Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL50_PREAMBLE				
Identifier:DL50_PREAMBLE				
Objective:Procedure used to place the IUT in test state 5.0 - Awaiting Establishment/Establish.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [IDLE_STATE4] [CAN_INIT_SABME] # # # # # # <IUT!SABME> START Topr ?SABME +DL40_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_INIT_SABME)] # # [NOT(IDLE_STATE4)] !DISC START T200 ?UA START Td ?SABME +DL70_UNEXPECTED GOTO L002 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL70_UNEXPECTED GOTO L001 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE </pre>	<p>L000</p> <p>L001</p> <p>L002</p>	<p>SABME1_UC</p> <p>DISC1_NC</p> <p>UA1_UR</p> <p>SABME1_UC</p>	<p>(I)</p> <p>(I)</p> <p>I</p> <p>P=1</p> <p>F=1</p> <p>P=1</p> <p>(I)</p> <p>(I)</p> <p>(I)</p> <p>(I)</p>	<p>IUT can initiate link in state 4.0</p> <p>Initiate Link Establish Request</p> <p>P=1</p> <p>IUT can not initiate link</p> <p>P=1</p> <p>F=1</p> <p>P=1</p>

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Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL60_PREAMBLE				
Identifier:DL60_PREAMBLE				
Objective:Procedure used to place the IUT in test state 6 - Awaiting Release.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_INIT_DISC] +DL70_PREAMBLE <IUT;DISC>				Initiate Link Release Req
#				P=1
#	START Topr ?DISC ?RR !RR GOTO L000 +DL70_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE [NOT(CAN_INIT_DISC)]	DISC1_UC RR1_UC(V_R) RR1_NR(V_S)		P=1 P=1 F 1
			(1)	
			(1)	
			1	Test not run
#				
Extended Comments:A PIXIT question is used to determine if the IUT is able to send DISC/P=1 on request, and if state 6.0 test cases can be tested.				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL71_PREAMBLE				
Identifier:DL71_PREAMBLE				
Objective:Procedure used to place the IUT in test state 7.1 - Multiple Frame Established/Normal/Reject Recovery.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE (N_S:=V_R+1) ! I (V_A:=V_S)		II_NC(N_S, V_S)		P=1,N(S)<>V (R),N(R)=V (S) of IUT
#				F=1
#				
START T200 ?REJ +DL70_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L000	REJ1_UR(V_R)	(I) (I)	
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL72_PREAMBLE				
Identifier:DL72_PREAMBLE				
Objective:Procedure used to place the IUT in test state 7.2 - Multiple Frame Established/Normal/Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL70_PREAMBLE <IUT!RNR>				Set Own Busy
#				
START Topr ?RNR	L000	RNR0_UR(V_R)		F=0, N(R)=V (R)
#		RNR0_UC(V_R)		F=0,N(R)=V (R)
#				
+DL70_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE +DL_TEST_OWN_BUSY]			(I) (I)	
[NOT(CAN_TEST_OWN_BUSY)]			I	Test not run
#				
Extended Comments:Test cases in this state can be tested only if IUT is capable of setting itself into Own Busy state.				

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL73_PREAMBLE				
Identifier: DL73_PREAMBLE				
Objective: Procedure used to place the IUT in test state 7.3 Multiple Frame Established/Normal/Reject Recovery and Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_TEST_OWN_BUSY} +DL71_PREAMBLE <IUT!RNR>				Set Own Busy
# START Topr ?RNR		RNR0_UR(V_R)		F=0,N(R)=V(R)
# ?RNR	L000	RNR0_UC(V_R)		P=0,N(R)=V(R)
# +DL71_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Topr +DL_POSTAMBLE {NOT(CAN_TEST_OWN_BUSY)}			(I)	
#			(I)	
#			I	Test not run
Extended Comments: Test cases in this state can be tested only when IUT is capable of setting itself into Own Busy state.				

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL74_PREAMBLE				
Identifier: DL74_PREAMBLE				
Objective: Procedure used to place the IUT in the test state 7.4 - Multiple Frame Established/Peer Receiver Busy/Normal.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RNR (V_A:=V_S)		RNR1_NC(V_S)		P=1,N(R)=V(S) of IUT
# START T200 ?RR +DL70_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L000	RRI_UR(V_R)	(I)	F=1
			(I)	
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL75_PREAMBLE				
Identifier: DL75_PREAMBLE				
Objective: Procedure used to place the IUT in the test state 7.5 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE (N_S::=V_R+1) ! I (V_A::=V_S)		IL_NC(N_S, V_S)		P=1.N(S)<>V (R).N(R)=V (S) of IUT
#				F=1
#				
START T200 ?REJ +DL74_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L000	REJL_UR(V_R)	(I) (I)	
Extended Comments:				

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL76_PREAMBLE				
Identifier: DL76_PREAMBLE				
Objective: Procedure used to place the IUT in test state 7.6 - Multiple Frame Established/Peer Receiver Busy/Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL72_PREAMBLE !RNR (V_A::=V_S)		RNR1_NC(V_S)		P=1.N(R)=V (S) of IUT
#				F=1
START T200 ?RNR +DL72_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L000	RNR1_UR(V_R)	(I) (I)	
#			I	Test not run
Extended Comments: Test cases in this state are executed only when IUT is capable of setting itself into Own Busy state.				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL77_PREAMBLE				
Identifier:DL77_PREAMBLE				
Objective:Procedure used to place the IUT in test state 7.7 - Multiple Frame Established/Peer Receiver Busy/Reject Recovery and Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL73_PREAMBLE !RNR (V_A:=V_S)		RNR1_NC (V_S)		P=1,N(R)=V (S) of IUT
# START T200 ?RNR +DL73_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L000	RNR1_UR (V_R)		F=1
			(I)	
			(I)	
			I	Test not run
Extended Comments:Test cases in this state are executed only when IUT is capable of setting itself into Own Busy state.				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL80_PREAMBLE				
Identifier:DL80_PREAMBLE				
Objective:Procedure used to place the IUT in test state 8.0 - Timer Recovery/Normal/Normal.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE START T200 (T200value+DELTA) ?RR !RR +DL74_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L000	RR1_UC (V_R) RR0_NR (V_S)		P=1 F=0
			(I)	
			(I)	
Extended Comments:				

Test Step Dynamic Behaviour			
Reference:LAPD/PREAMBLE/DL81_PREAMBLE Identifier:DL81_PREAMBLE Objective:Procedure used to place the IUT in test state 8.1 - Timer Recovery/Normal/Reject Recovery. Default:			
Behaviour Description	Label	Constraints Reference	V Comments
+DL71_PREAMBLE !RNR(V_A:=V_S) START T200 ?RR	L000	RNR1_NC(V_S)	P=1
START T200 (T200value+DELTA) ?RR	L001	RNR1_UR(V_R)	F=1
?RR !RR +DL74_UNEXPECTED GOTO L001 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE +DL71_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE		RNR1_UC(V_R) RNR1_NR(V_S)	P=1 F=0
			(I)
			(I)
			(I)
			(I)

Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL82_PREAMBLE				
Identifier:DL82_PREAMBLE				
Objective:Procedure used to place the IUT in test state 8.2 - Timer Recovery/Normal/Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
<pre> [CAN_TEST_OWN_BUSY] +DL72_PREAMBLE !RNR (V_A:=V_S) START Td ?RNR ?RNR START Td ?RNR !RR +DL76_UNEXPECTED GOTO L001 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL72_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT (CAN_TEST_OWN_BUSY)] </pre>	<p>L000</p> <p>L001</p>	<p>RNR1_NC(V_S)</p> <p>RNR1_UR(V_R)</p> <p>RNR1_UC(V_R)</p> <p>RR0_NR(V_S)</p>	<p>P=1</p> <p>P=1</p> <p>P=1</p> <p>F=0</p> <p>(I)</p> <p>(I)</p> <p>(I)</p> <p>(I)</p> <p>I</p>	<p>P=1</p> <p>P=1</p> <p>P=1</p> <p>F=0</p> <p>(I)</p> <p>(I)</p> <p>(I)</p> <p>(I)</p> <p>Test not run</p>
#				
<p>Extended Comments:Test cases in this state are executed only when (i) IUT is capable of setting itself into Own Busy state and (ii) IUT either has implemented T203 or is capable of sending I frame on request.</p>				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL83_PREAMBLE				
Identifier:DL83_PREAMBLE				
Objective:Procedure used to place the IUT in test state 8.3 - Timer Recovery/Normal/Reject Recovery.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_TEST_OWN_BUSY} +DL73_PREAMBLE !RNR(V_A::=V_S) START Td ?RNR START Td ?RNR !RR +DL77_UNEXPECTED GOTO L001 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL73_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]				
	L000	RNR1_NC(V_S)		P=1
	L001	RNR1_UR(V_R)		F=1
		RNR1_UC(V_R)		P=1
		RR0_NR(V_S)		F=0
#			I	Test not run
Extended Comments:Test cases in this state are executed only when (i) IUT is capable of setting itself into Own Busy state and (ii) IUT either has implemented T203 or is capable of sending I frame on request.				

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL84_PREAMBLE				
Identifier:DL84_PREAMBLE				
Objective:Procedure used to place the IUT in test state 8.4 - Timer Recovery/Peer Receiver Busy/Normal.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL74_PREAMBLE START T200 (T200(value+DELTA) ?RR +DL74_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE				
	L000	RR1_UC(V_R)		P=1
			(I)	
			(I)	
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/PREAMBLE/DL86_PREAMBLE				
Identifier:DL86_PREAMBLE				
Objective:Procedure used to place the IUT in test state 8.6 - Timer Recovery/Peer Receiver Busy/Own Busy.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
{CAN_TEST_OWN_BUSY} +DL76_PREAMBLE START Td ?RNR +DL76_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L000	RNR1_UC(V_R)	(I) (I)	P=1 Test not run
#				
Extended Comments:Test cases in this state are executed only when (i) IUT is capable of setting itself into Own Busy state and (ii) IUT either has implemented T203 or is capable of sending I frame on request.				

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL87_PREAMBLE				
Identifier: DL87_PREAMBLE				
Objective: Procedure used to place the IUT in test state 8.7 - Timer Recovery/Peer Receiver Busy/Reject Recovery and Own Busy				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[CAN_TEST_OWN_BUSY] +DL77_PREAMBLE START Td ?RNR +DL77_UNEXPECTED GOTO L000 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE [NOT(CAN_TEST_OWN_BUSY)]	L000	RNR1_UC(V_R)		P=1
#			(I) (I) I	Test not run
Extended Comments: Test cases in this state are executed only when (i) IUT is capable of setting itself into Own Busy state and (ii) IUT either has implemented T203 or is capable of sending I frame on request.				

Test Step Dynamic Behaviour				
Reference: LAPD/PREAMBLE/DL74S_PREAMBLE				
Identifier: DL74S_PREAMBLE				
Objective: Procedure to place the IUT in Multiple Frame Established Peer Busy State (7.4) Using RNR/F=0.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
+DL70_PREAMBLE !RNR START Td ?RR !RNR +DL74_UNEXPECTED GOTO L740 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE	L740	RNR0_NR(V_S) RR1_UC(V_R) RNR1_NR(V_S)		F=0 P=1 F=1
			(I) (I)	
Extended Comments:				

Test Step Dynamic Behaviour					
Reference:LAPD/PREAMBLE/DL80S_PREAMBLE Identifier:DL80S_PREAMBLE Objective:Procedure to place the IUT in Timer Recovery state (8.0) with one I-frame unacknowledged by the tester. Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
#	+DL70_PREAMBLE ! I (V_A:=V_S) START T200 (V_R:=V_R+1) ?RR START T1 ? I START Td (N_S:=V_S,V_S:=V_S+1) ? I ?RR +DL80_UNEXPECTED GOTO L802 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT Td +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L801 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T1 +DL_POSTAMBLE +DL80_UNEXPECTED GOTO L800 ?OTHERWISE +DL_POSTAMBLE ?TIMEOUT T200 +DL_POSTAMBLE	L800 L801 <			

Test Step Dynamic Behaviour				
Reference: LAPD/VERIFICATION/DL40_ID_VERIFICATION Identifier: DL40_ID_VERIFICATION Objective: Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL40_VERIFICATION, ensures that the IUT remains in State 4. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt		ID_chk_req (TEI_N)		Send ID Check Req
# START T202 ?UI_Mgmt +DL40_VERIFICATION +DL40_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT T202	L000	ID_chk_resp (TEI_N)	(P)	
			(F) (F)	No response
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL50_ID_VERIFICATION				
Identifier:DL50_ID_VERIFICATION				
Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL50_VERIFICATION, ensures that the IUT remains in State 5.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt		ID_chk_req (TEI_N)		Send ID Check Req
# START T202 ?UI_Mgmt	L000	ID_chk_resp (TEI_N)	(P)	
# +DL50_VERIFICATION +DL50_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT T202			(F) (F)	No response
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL60_ID_VERIFICATION				
Identifier:DL60_ID_VERIFICATION				
Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL60_VERIFICATION, ensures that the IUT remains in State 6.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt		ID_chk_req (TEI_N)		Send ID Check Req
# START T202 ?UI_Mgmt	L000	ID_chk_resp (TEI_N)	(P)	
# +DL60_VERIFICATION +DL60_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT T202			(F) (F)	No response
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL70_ID_VERIFICATION Identifier:DL70_ID_VERIFICATION Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL70_VERIFICATION, ensures that the IUT remains in State 7. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt # START T202 ?UI_Mgmt # +DL70_VERIFICATION +DL70_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT T202	L000	ID_chk_req (TEI_N) ID_chk_resp (TEI_N)	 (F) (F) (F)	Send ID Check Req No response
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL74_ID_VERIFICATION Identifier:DL74_ID_VERIFICATION Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL74_VERIFICATION, ensures that the IUT remains in State 7.4. Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt # START T202 ?UI_Mgmt # +DL74_VERIFICATION +DL74_UNEXPECTED GOTO L000 ?OTHERWISE ?TIMEOUT T202	L000	ID_chk_req (TEI_N) ID_chk_resp (TEI_N)	 (P) (F) (F)	Send ID Check Req No response
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL80_ID_VERIFICATION				
Identifier:DL80_ID_VERIFICATION				
Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL80_VERIFICATION, ensures that the IUT remains in State 8.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt		ID_chk_req (TEI_N)		Send ID Check Req
# START T202				
?UI_Mgmt	L000	ID_chk_resp (TEI_N)	(P)	
+DL80_VERIFICATION				
+DL80_UNEXPECTED				
GOTO L000				
?OTHERWISE				
?TIMEOUT T202				
			(F)	No response
			(F)	
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL84_ID_VERIFICATION				
Identifier:DL84_ID_VERIFICATION				
Objective:Responds to the IUT's ID_Verify_Request with an ID_Check_Request. Test will then expect an ID_Check_Response from the IUT. The subtree, DL84_VERIFICATION, ensures that the IUT remains in State 8.4.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt		ID_chk_req (TEI_N)		Send ID Check Req
# START T202				
?UI_Mgmt	L000	ID_chk_resp (TEI_N)	(P)	
+DL84_VERIFICATION				
+DL84_UNEXPECTED				
GOTO L000				
?OTHERWISE				
?TIMEOUT T202				
			(F)	No response
			(F)	
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL10_VERIFICATION				
Identifier:DL10_VERIFICATION				
Objective:Procedure to verify that the IUT has removed the assigned TEI number and is in TEI unassigned state (1.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!SAPME		SABME_NC		Use TEI_N
START T200				
?UI_Mgmt		ID_Req	(F)	
?OTHERWISE			(F)	
?TIMEOUT T200				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL20_VERIFICATION				
Identifier:DL20_VERIFICATION				
Objective:Verify that the IUT is in Assign Awaiting TEI state (2.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
START T202 (T202value+DELTA) ?UI_Mgmt +DL20_UNEXPECTED GOTO L200 ?TIMEOUT T202 ?OTHERWISE	L200	ID_Req	(P) (F) (F)	
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL40_VERIFICATION				
Identifier:DL40_VERIFICATION				
Objective:Verify that IUT is in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!DISC START T200 ?DM !DM START T200 ?SABME +DL40_UNEXPECTED GOTO L401 ?TIMEOUT T200 ?OTHERWISE +DL40_UNEXPECTED GOTO L400 ?OTHERWISE ?TIMEOUT T200	L400 L401	DISC1_NC DM1_UR DM0_NR SABME1_UC	 (P) (F) (F) (F)	P=1 F=1 F=0 P=1
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL50_VERIFICATION				
Identifier:DL50_VERIFICATION				
Objective:Verify that IUT is in Awaiting Establishment state (5.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!DM START T200 (T200value-DELTA) ?TIMEOUT T200 !UA (V_S:=0,V_R:=0,V_A:=0) START Td ?TIMEOUT Td !RR START T200 ?RR +DL70_UNEXPECTED GOTO L502 ?OTHERWISE ?TIMEOUT T200 +DL50_UNEXPECTED GOTO L501 ?OTHERWISE +DL50_UNEXPECTED GOTO L500 ?OTHERWISE	L500 L501 L502	DM0_NR UA1_NR RR1_NC(V_S) RR1_UR(V_R)	 (F) (F) (F) (F)	F=0 F=1 P=1 F=1
Extended Comments:				

Test Step Dynamic Behaviour					
Reference:LAPD/VERIFICATION/DL51_VERIFICATION Identifier:DL51_VERIFICATION Objective:Verify that IUT is in Awaiting Establishment/Reestablish state(5.1). Default:					
	Behaviour Description	Label	Constraints Reference	V	Comments
IDM	START T200 (?T200value-DELTA) ?TIMEOUT T200 !UA (V_S:=0,V_R:=0,V_A:=0)	L510	DW0_NR		F=0
	START Td ?TIMEOUT Td !RR	L511	UA1_NR		F=1
	START T200 ?RR +DL70_UNEXPECTED GOTO L512 ?OTHERWISE ?TIMEOUT T200 +DL51_UNEXPECTED	L512	RR1_NC(V_S) RR1_UR(V_R)	(F) (F)	P=1 P=1
	GOTO L511 ?OTHERWISE +DL51_UNEXPECTED GOTO L510 ?OTHERWISE			(F) (F)	
Extended Comments:					

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL60_VERIFICATION				
Identifier:DL60_VERIFICATION				
Objective:Verify that IUT is in the Awaiting Release state (6.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!SABME		SABME1_NC		P=1
START T200				
?DM				
!DISC	L600	DM1_UR		P=1
START T200		DISC1_NC		P=1
?UA	L601	UA1_UR		P=1
+DL60_UNEXPECTED				
GOTO L601				
?OTHERWISE			(F)	
?TIMEOUT T200			(F)	
?DISC				
GOTO L600				
+DL60_UNEXPECTED				
GOTO L600				
?OTHERWISE			(F)	
?TIMEOUT T200		DISC1_UC		P=1

Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL70_VERIFICATION				
Identifier:DL70_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S::=V_R+1) !I # #		IL_NC(N_S, V_S)		P=1 V(S)<>V (R).N(R)=V (S)
START T200 ?REJ START T200 ?TIMEOUT T200 +DL71_UNEXPECTED GOTO L701 ?OTHERWISE +DL70_UNEXPECTED GOTO L700 ?OTHERWISE ?TIMEOUT T200	L700 L701	REJ1_UR(V_R)	(F) (F) (F) (F)	F=1
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL72_VERIFICATION				
Identifier:DL72_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?TIMEOUT T200 +DL72_UNEXPECTED GOTO L721 ?OTHERWISE +DL72_UNEXPECTED GOTO L720 ?OTHERWISE ?TIMEOUT T200	L720 L721	RR1_NC(V_S) RNR1_UR(V_R)		P=1 F=1
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL73_VERIFICATION				
Identifier:DL73_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?TIMEOUT T200 +DL73_UNEXPECTED GOTO L721 ?OTHERWISE +DL73_UNEXPECTED GOTO L720 ?OTHERWISE ?TIMEOUT T200	L720 L721	RR1_NC(V_S) RNR1_UR(V_R)		P=1 F=1
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL74_VERIFICATION				
Identifier:DL74_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.4)				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 V(S)<>V (R),N(R)=V (S)
# # START T200 ?REJ START T200 ?RR +DL75_UNEXPECTED GOTO L741 ?OTHERWISE ?TIMEOUT T200 +DL74_UNEXPECTED GOTO L740 ?OTHERWISE ?TIMEOUT T200	L740 L741	REJ1_UR(V_R) RR1_UC(V_R)		F=1 P=1
Extended Comments:				
			(F) (F) (F) (F)	

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL75_VERIFICATION				
Identifier:DL75_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1) ! I		I1_NC(N_S, V_S)		P=1 V(S)<>V (R),N(R)=V (S)
# # START T200 ?RR START T200 ?RR +DL75_UNEXPECTED GOTO L751 ?OTHERWISE ?TIMEOUT T200 +DL75_UNEXPECTED GOTO L750 ?OTHERWISE ?TIMEOUT T200	L750 L751	RR1_UR(V_R) RR1_UC(V_R)		F=1 P=1
Extended Comments:				
			(F) (F) (F) (F)	

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL76_VERIFICATION				
Identifier:DL76_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.6).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?TIMEOUT T200 +DL76_UNEXPECTED GOTO L761 ?OTHERWISE +DL76_UNEXPECTED GOTO L760 ?OTHERWISE ?TIMEOUT T200	L760 L761	RR1_NC(V_S) RNR1_UR(V_R)		P=1 F=1
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL77_VERIFICATION				
Identifier:DL77_VERIFICATION				
Objective:Verify that the IUT is in Multiple Frame Established state (7.7).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?TIMEOUT T200 +DL73_UNEXPECTED GOTO L771 ?OTHERWISE +DL77_UNEXPECTED GOTO L770 ?OTHERWISE ?TIMEOUT T200	L770 L771	RR1_NC(V_S) RNR1_UR(V_R)		P=1 F=1
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL80_VERIFICATION				
Identifier:DL80_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1)		IL_NC(N_S, V_S)		P=1 V(S)<>V(R),N(R)=V(S)
#				
#				
START T200				
?REJ				
START T200	L800	REJ1_UR(V_R)		F=1
?RR				
+DL81_UNEXPECTED				
GOTO L801				
?OTHERWISE				
?TIMEOUT T200				
+DL80_UNEXPECTED				
GOTO L800				
?OTHERWISE				
?TIMEOUT T200				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL81_VERIFICATION				
Identifier:DL81_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.1).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1)		IL_NC(N_S, V_S)		P=1 V(S)<>V(R),N(R)=V(S)
#				
#				
START T200				
?RR				
START T200	L810	RR1_UR(V_R)		F=1
?RR				
+DL81_UNEXPECTED				
GOTO L811				
?OTHERWISE				
?TIMEOUT T200				
+DL81_UNEXPECTED				
GOTO L810				
?OTHERWISE				
?TIMEOUT T200				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL82_VERIFICATION				
Identifier:DL82_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.2).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?RNR +DL82_UNEXPECTED GOTO L821 ?OTHERWISE ?TIMEOUT T200 +DL82_UNEXPECTED GOTO L820 ?OTHERWISE ?TIMEOUT T200	L820 L821	RR1_NC(V_S) RNR1_UR(V_R) RNR1_UC(V_R)	 (F) (F) (F) (F)	P=1 F=1 F=1
Extended Comments:				

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL83_VERIFICATION				
Identifier:DL83_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.3).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!RR START T200 ?RNR START T200 ?RNR +DL83_UNEXPECTED GOTO L831 ?OTHERWISE ?TIMEOUT T200 +DL83_UNEXPECTED GOTO L830 ?OTHERWISE ?TIMEOUT T200	L830 L831	RR1_NC(V_S) RNR1_UR(V_R) RNR1_UC(V_R)	 (F) (F) (F) (F)	P=1 F=1 F=1
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL84_VERIFICATION				
Identifier:DL84_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.4).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1) ! I # #		I1_NC(N_S, V_S)		P=1 V(S)<>V (R),N(R)=V (S)
START T200 ?RET	L840	REJL_UR(V_R)		F=1
?RR START T200 +DL85_UNEXPECTED GOTO L841 ?OTHERWISE ?TIMEOUT T200 +DL84_UNEXPECTED GOTO L840 ?OTHERWISE ?TIMEOUT T200	L841	RR1_UC(V_R)		P=1
Extended Comments:				
			(F)	
			(F)	
			(F)	
			(F)	

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL85_VERIFICATION				
Identifier:DL85_VERIFICATION				
Objective:Verify that the IUT is in Timer Recovery state (8.5).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
(N_S:=V_R+1) ! I # #		I1_NC(N_S, V_S)		P=1 V(S)<>V (R),N(R)=V (S)
START T200 ?RR	L850	RR1_UR(V_R)		F=1
?RR START T200 +DL85_UNEXPECTED GOTO L851 ?OTHERWISE ?TIMEOUT T200 +DL85_UNEXPECTED GOTO L850 ?OTHERWISE ?TIMEOUT T200	L851	RR1_UC(V_R)		P=1
			(F)	
			(F)	
			(F)	
			(F)	
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour			
Behaviour Description	Label	Constraints Reference	V
!RR		RR1_NC (V_S)	P=1
START T200			
?RNR	L860	RNR1_UR (V_R)	F=1
START T200			
?RNR	L861	RNR1_UC (V_R)	P=1
+DL82_UNEXPECTED			
GOTO L861			(F)
?OTHERWISE			(F)
?TIMEOUT T200			
+DL86_UNEXPECTED			
GOTO L860			(F)
?OTHERWISE			(F)
?TIMEOUT T200			(F)

Extended Comments:

LAPD Conformance Testing

Test Step Dynamic Behaviour					
Reference:LAPD/VERIFICATION/DL87_VERIFICATION Identifier:DL87_VERIFICATION Objective:Verify that the IUT is in Timer Recovery state (8.7). Default:					
Behaviour Description	Label	Constraints Reference	V	Comments	
!RR START T200 ?RNR START T200 ?RNR +DL83_UNEXPECTED GOTO L871 ?OTHERWISE ?TIMEOUT T200 +DL87_UNEXPECTED GOTO L870 ?OTHERWISE ?TIMEOUT T200	L870	RRI_NC(V,S) RNRL_UR(V,R)	 	P=1 P=1	
	L871	RNRL_UC(V,R)		P=1	(F) (F) (F) (F)

Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL40S_VERIFICATION				
Identifier:DL40S_VERIFICATION				
Objective:Procedure used to verify that the IUT is in TEI Assigned state (4.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
START Td				
?TIMEOUT Td	L400			
!DISC START T1				
?DM	L401	DISC1_NC DM1_UR		P=1 F=1
+DL40_UNEXPECTED				
GOTO L401				
?OTHERWISE			(F)	
?TIMEOUT T1			(F)	
?SABME(NOT(IDLE_STATE4))		SABME1_UC		P=1, state 4 not stabl e. F=1
#				
#				
!DM				
+DL40_UNEXPECTED				
GOTO L400				
?OTHERWISE		DM1_NR	(F)	
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/VERIFICATION/DL70S_VERIFICATION				
Identifier:DL70S_VERIFICATION				
Objective:Procedure used to verify that the IUT is in Multiple Frame Established state (7.0).				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
!I				P=0, Release
#				
(V_R:=V_R+1)				
?RR START T1	L700			F=0
?I	L701	RR0_UR(V_R) IN20_UC(V_S,V_R)		P=0, Rel Comp
(V_S:=V_S+1)				F=0
!RR		RR0_NR(V_S)		
+DL70_UNEXPECTED				
GOTO L701			(F)	
?OTHERWISE				
+DL_POSTAMBLE			(F)	
?TIMEOUT T1				
+DL70_UNEXPECTED				
GOTO L700				
?OTHERWISE			(F)	
+DL_POSTAMBLE				
?TIMEOUT T200			(F)	
+DL_POSTAMBLE				
Extended Comments:Executed only on IUTs with Q.931 software present.				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL10_UNEXPECTED				
Identifier:DL10_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL20_UNEXPECTED				
Identifier:DL20_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL40_UNEXPECTED				
Identifier:DL40_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				

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Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL50_UNEXPECTED				
Identifier:DL50_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL51_UNEXPECTED				
Identifier:DL51_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL60_UNEXPECTED				
Identifier:DL60_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL70_UNEXPECTED				
Identifier:DL70_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL71_UNEXPECTED				
Identifier:DL71_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				

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Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL72_UNEXPECTED				
Identifier:DL72_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL73_UNEXPECTED				
Identifier:DL73_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL74_UNEXPECTED				
Identifier:DL74_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL75_UNEXPECTED				
Identifier:DL75_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL76_UNEXPECTED				
Identifier:DL76_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				

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Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL77_UNEXPECTED				
Identifier:DL77_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL80_UNEXPECTED				
Identifier:DL80_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL81_UNEXPECTED				
Identifier:DL81_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL82_UNEXPECTED				
Identifier:DL82_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL83_UNEXPECTED				
Identifier:DL83_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				

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Extended Comments:

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL84_UNEXPECTED				
Identifier:DL84_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL85_UNEXPECTED				
Identifier:DL85_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL86_UNEXPECTED				
Identifier:DL86_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

Test Step Dynamic Behaviour				
Reference:LAPD/UNEXPECTED/DL87_UNEXPECTED				
Identifier:DL87_UNEXPECTED				
Objective:To handle all acceptable unexpected messages				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
?XID		XID0_UC		XID may not have text
#				
Extended Comments:				

LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/POSTAMBLE/DL_POSTAMBLE				
Identifier:DL_POSTAMBLE				
Objective:Procedure used to return the IUT to the selected 'idle state'. Depending on the value of test suite parameter IDLE_STATE4, it will call either DL4_POSTAMBLE or DL7_POSTAMBLE to set the IUT to state 4.0 or 7.0. This routine is executed at the end of all test cases for Multiple Frame Operations.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
[IDLE_STATE4] +DL4_POSTAMBLE [NOT(IDLE_STATE4)] +DL7_POSTAMBLE				
Extended Comments:This postamble should be executed at the end of every test case for Multiple Frame Operation (states 4.0 -- 8.7).				

Behaviour Description	Label	Constraints Reference	V	Comments
GOTO L000 ?TIMEOUT T200 # # #				No action from IUT. Try to disconnct P=1
!DISC START T200 ?UA ?DM +DL40_UNEXPECTED GOTO L003 ?OTHERWISE GOTO L003 ?TIMEOUT T200 # # #	L003	DISC_NC UA1_UR DM1_UR	R R	F=1 F=1
			R	no response from IUT. User action required

Extended Comments:

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LAPD Conformance Testing

Test Step Dynamic Behaviour				
Reference:LAPD/POSTAMBLE/DL7_POSTAMBLE				
Identifier:DL7_POSTAMBLE				
Objective:Procedure used to return the IUT to Multiple Frame Established state (7.0) at the end of a test case for Multiple Frame Operations. This routine is executed when the test suite parameter IDLE_STATE4 is false.				
Default:				
Behaviour Description	Label	Constraints Reference	V	Comments
START T200 (T200value+DELTA) ?SABME !UA ?DISC !DM START Td ?SABME !UA +DL70_UNEXPECTED GOTO L001 ?OTHERWISE GOTO L001 ?TIMEOUT Td	L000	SABME_UC UAL_NF DISC1_UC DM1_NR SABME1_UC UAL_NR	R	P=1 F=1 P=1 F=1 P=1 F=1
?RR !SABME START T200 ?UA +DL70_UNEXPECTED ?OTHERWISE GOTO L002 ?TIMEOUT T200	L001	RR1_UC(V_R) SABME1_NC UAL_UR	R	User action required P=1 P=1 F=1
?RNR !SABME START T200 ?UA +DL70_UNEXPECTED GOTO L003 ?OTHERWISE GOTO L003 ?TIMEOUT T200	L002	RNR1_UC(V_R) SABME1_NC UAL_UR	R	User action required P=1 P=1 F=1
?UI_Mgmt(Ri_No::=UI_Mgmt.Ri)	L003	ID_Req	R	User action required TEI was

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LAPD Conformance Testing

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Behaviour Description	Label	Constraints Reference	V	Comments
!UI_Mgmt !SABME START T200 ?UA +DL70_UNEXPECTED GOTO L004 ?OTHERWISE GOTO L004 ?TIMEOUT T200	L004	ID_Assign (Ri_No) SABME1_NC UAL_UR	R	removed. Attempting to assign P=1 F=1
+DL70_UNEXPECTED GOTO L000 ?OTHERWISE GOTO L000 ?TIMEOUT T200	L005	SABME1_NC UAL_UR	R	User action required
!SABME START T200 ?UA +DL70_UNEXPECTED GOTO L005 ?OTHERWISE GOTO L005 ?TIMEOUT T200	L005	SABME1_NC UAL_UR	R	No response from IUT. Try to disconnect P=1 F=1
Extended Comments:				

APPENDIX I (Informative)

A Method for Implementing Test Cases

I.1 Introduction

The following appendix describes a method for the implementation of test cases. It is possible to use this method to simplify the implementation and maintenance of test cases. The method, referred here as the Test Grouping Method, takes advantage of the similarities within test case bodies in order to develop test cases on a tester in a more efficient manner.

The implementation method discussed in this appendix does not preclude the use of other means of organizing the test suite. Appendix II, "A Method for Minimizing Run-Time of Test Cases," discusses a test case execution method.

In section I.1.1 of this appendix, the method of grouping test cases is described. An example is provided in section I.2. The Grouping Method is illustrated for state 7.0 test cases of the LAPD Protocol Test Suite.

I.1.1 Description

The present document contains the abstract conformance test suite for the LAPD protocol described in a form independent of any tester. However, there are means to facilitate the implementation and maintenance of the test cases. One such method is the Grouping Method. This method is designed for the implementation of test cases and is independent of the method selected for executing the test cases.

A "Group" (of test cases) is a set of test cases with identical or similar test bodies. The criteria for establishing a Group is that all test cases in the Group have an identical test body (including identical PDU Constraints), or that a significant part of it is similar. The primary objective is to select the Group such that the test body is implementable as a single procedure on the tester. One possible Group could be all of the test cases whose test bodies consist of the tester sending PDUx and the IUT responding with PDUy. Test cases DL70_V08 to DL77_V08 are examples of such a Group. In each of the test cases, the tester sends a SABME and the IUT is expected to respond with a UA. All of these test cases have an identical test body; the only difference is in the test state.

The Grouping Method is used in the following manner:

1. all test cases with identical or similar test bodies, as defined above, are captured in a Group.
2. one common test body is implemented on the tester for the entire Group. The test body is implemented as a procedure (subroutine). Each test case within the Group refers to the common test body via a procedure (subroutine) call.
3. each test case in the Group is implemented as described in DIS ISO 9646-3, namely:

Test_Case

+Preamble
+TestBody
+Postamble

Each TTCN subtree is implemented as a procedure (subroutine). Every test case in the Group makes use of the common subtree TestBody. In addition, the TestBody can be implemented with parameters to provide additional flexibility.

The Grouping Method is a beneficial implementation strategy. First, the method itself is compliant with DIS 9646. Once test cases are grouped, the structure in DIS 9646 is used as the base structure for implementing the test cases. Namely, test cases consist of references to three modules, the Preamble, (different for each test case in the Group), the TestBody (common to all test cases in the Group) and the Postamble.

Secondly, the most significant benefit is the potential savings in test case implementation. Since common test bodies are shared by many test cases, duplication of code on the tester is avoided.

Finally, maintenance of the test suite is simplified because there is a smaller number of common test bodies. In the event that updates are made to the protocol, changes to the implementation will typically consist of modifying a selected number of test bodies rather than a larger set of test cases.

I.2 Example

In this section, the test grouping method is illustrated for state 7.0 test cases defined for the LAPD protocol in this document.

Table I.1 below provides a description of one possible grouping of test cases. The table is read as follows:

- the first column, "Group," is a group reference number.
- the second column, "Test Case Number," is the test case identification of those making up the Group. The "7x" is an indication that the grouping method is used.
- the third column, "Applicable States," indicates which states use the common test body. For example, the first entry in the table, "0,1,...,7" indicates that test cases DL70_V01, DL71_V01,... DL77_V01 share a common test body and, therefore form a Group.
- the last column is a count of the number of test cases in the Group.

TABLE I.1 - Test Grouping Method Example for LAPD Test Suite State 7.0 Test Cases			
Group	Test Case Number	Applicable States (x)	Number of Test Cases in Group
1	DL7x_V01	0,1,...,7	8
2	DL7x_V03	0,1,...,7	8
3	DL7x_V04	0,1,...,7	8
4	DL7x_V08	0,1,...,7	8
5	DL7x_V10	0,1,...,7	8
6	DL7x_V11	0,1,...,7	8
7	DL7x_V12	0,1,...,7	8
8	DL7x_V13	0,1,...,7	8
9	DL7x_V14	0,1,...,7	8
10	DL7x_V15	0,1,...,7	8
11	DL7x_V20	0,1,4,5	4
12	DL7x_v20	2,3,6,7	4
13	DL7x_V21	0,1,...,7	8
14	DL7x_I01	0,1,...,7	8
15	DL7x_V23	0,1,...,7	8
16	DL7x_V24	0,1,4,5	4
17	DL7x_V24	2,3,6,7	4
18	DL7x_V25	0,1,...,7	8
19	DL7x_I02	0,1,...,7	8
20	DL7x_V26	0,1,...,7	8
21	DL7x_V27	0,1,4,5	4
22	DL7x_V27	2,3,6,7	4
23	DL7x_V28	0,1,...,7	8
24	DL7x_I03	0,1,...,7	8
25	DL7x_V29	0,1,...,7	8
26	DL7x_N01	0,1,4,5	4
27	DL7x_N01	2,3,6,7	4
28	DL7x_N02	0,1,...,7	8

TABLE I.1 - Test Grouping Method Example for LAPD Test Suite State 7.0 Test Cases			
Group	Test Case Number	Applicable States (x)	Number of Test Cases in Group
29	DL7x_N03	0,1,...7	8
30	DL7x_N04	0,1,...7	8
31	DL7x_V30	0,1,4,5	4
32	DL7x_V30	2,3,6,7	4
33	DL7x_V31	0,1,...7	8
34	DL7x_I04	0,1,...7	8
35	DL7x_V32	0,1,...7	8
36	DL7x_V33	0,1,4,5	4
37	DL7x_V33	2,3,6,7	4
38	DL7x_V34	0,1,...7	8
39	DL7x_I05	0,1,...7	8
40	DL7x_V35	0,1,...7	8
41	DL7x_N05	0,1,4,5	4
42	DL7x_N05	2,3,6,7	4
43	DL7x_N06	0,1,...7	8
44	DL7x_N07	0,1,...7	8
45	DL7x_N08	0,1,...7	8
46	DL7x_V36	0,1,4,5	4
47	DL7X_V36	2,3,6,7	4
48	DL7x_V37	0,1,...7	8
49	DL7x_I06	0,1,...7	8
50	DL7x_V39	0,1,...7	8
51	DL7x_V40	0,1,4,5	4
52	DL7X_V40	2,3,6,7	4
53	DL7x_V41	0,1,...7	8
54	DL7x_I07	0,1,...7	8
55	DL7x_V43	0,1,...7	8
56	DL7x_N09	0,1,4,5	4
57	DL7x_N09	2,3,6,7	4
58	DL7x_N10	0,1,...7	8
59	DL7x_N11	0,1,...7	8
60	DL7x_N12	0,1,...7	8
61	DL7x_V44	0,1,4,5	4
62	DL7x_V44	2,3,6,7	4
63	DL7x_V45	0,1,4,5	4
64	DL7x_V45	2,3,6,7	4
65	DL7x_V46	0,1,4,5	4
66	DL7x_V46	2,3,6,7	4
67	DL7x_V47	0,4	2
68	DL7x_V47	1,2,3,5,6,7	6
69	DL7x_V48	0,1,4,5	4
70	DL7x_V48	2,3,6,7	4
71	DL7x_V49	0,1,4,5	4
72	DL7x_V49	2,3,6,7	4
73	DL7x_V50	0,4	2
74	DL7x_V50	1,5	2
75	DL7x_V50	2,3,6,7	4
76	DL7x_V51	0,4	2
77	DL7x_V51	1,2,3,5,6,7	6

TABLE I.1 - Test Grouping Method Example for LAPD Test Suite State 7.0 Test Cases			
Group	Test Case Number	Applicable States (x)	Number of Test Cases in Group
78	DL7x_V52	0,1,4,5	4
79	DL7x_V52	2,3,6,7	4
80	DL7x_V53	0,1,4,5	4
81	DL7x_V53	2,3,4,5	4
82	DL7x_V54	0,4	2
83	DL7x_V54	1,5	2
84	DL7x_V54	2,3,6,7	4
85	DL7x_V55	0,4	2
86	DL7x_V55	1,2,3,5,6,7	6
87	DL7x_N13	0,1,4,5	4
88	DL7x_N13	2,3,6,7	4
89	DL7x_N14	0,1,4,5	4
90	DL7x_N14	2,3,6,7	4
91	DL7x_N15	0,4	2
92	DL7x_N15	1,5	2
93	DL7x_N15	2,3,6,7	4
94	DL7x_N16	0,4	2
95	DL7x_N16	1,2,3,5,6,7	6
96	DL7x_V56	0,1,4,5	4
97	DL7x_V56	2,3,6,7	4
98	DL7x_V57	0,1	2
99	DL7x_V57	2,3	2
100	DL7x_V58	0,1,4,5	4
101	DL7x_V58	2,3,6,7	4
102	DL7x_V59	0,1,4,5	4
103	DL7x_V59	2,3,6,7	4
104	DL7x_N17	0,1,...7	8
105	DL7x_N18	0,1,...7	8
106	DL7x_N19	0,1,...7	8
107	DL7x_N20	0,1,...7	8
108	DL7x_N21	0,1,...7	8
109	DL7x_N22	0,1,...7	8
110	DL7x_N23	0,1,...7	8
111	DL7x_N24	0,1,...7	8
112	DL7x_N25	0,1,...7	8
113	DL7x_N26	0,1,...7	8
114	DL7x_N27	0,1,...7	8

APPENDIX II (Informative)

A Method for Minimizing Run-Time of Test Cases

II.1 Introduction

This appendix describes a method that minimizes the run-time of test cases defined for the LAPD protocol, thus providing significant savings on the time required to execute the test cases. Recent research suggests that the number of steps required to run the test cases can be minimized, if the test bodies are run in a particular order, and the preambles and postambles are executed only if the previous test case verdict is a fail [1][2][3].

This method is intended to be a guide for the implementors of test cases and should not be considered as mandatory. Furthermore, this method does not preclude other means of organizing the test suite such as the one titled "A Method for Implementing Test Cases" presented in Appendix I of this Recommendation.

In Section II.1.1 of this appendix, the method for sequencing test bodies is briefly described. An example test sequence for the mandatory (i.e., not conditional) test cases defined in this document is presented in Section II.2.

II.1.1 Description

Each test case defined in the LAPD Abstract Test Suite consists of three parts: preamble, test body, and postamble. The preamble brings the IUT from the initial state into the test state. Each test body logically consists of two parts. The first part includes the PDUs exchanged between the tester and the IUT in order to achieve the test purpose. The second part defines the PDU exchanges to verify that the state of the IUT is as expected after the first part of the test body is run. The postamble places the IUT into the initial stable state following the execution of a test body.

During testing, it is stated in Part 2 of ISO DIS 9646 (Section 12.1.5) that the test bodies can be ordered in a tour fashion to obtain run-time efficiencies. In this case, preambles and postambles are necessary only when an individual test case to be run or when a test case fails and the tour is broken. In other words, if the verdict of a test case is PASS after the execution of the test body, another test body can be run without bringing the IUT into the initial state (by the postamble) and back to another starting state (by the preamble) for another test case. Therefore, if the verdict is PASS, considerable reduction in time can be achieved, since the test bodies are concatenated without unnecessarily running the preambles and postambles. Current research proves that the test bodies can be ordered in this way such that the execution time is minimized. The technique described in [1][2][3] yields an average reduction of 2 to 1 in the number of steps to run test cases, compared to using preambles and postambles for each test case.

In order to incorporate the above mentioned minimization technique into an abstract test suite, the preambles and postambles can be defined such that they are executed conditionally. For example, at each preamble (postamble), a boolean test suite variable can be defined such that the preamble (postamble) is run only if the variable value is FAIL and bypassed if the value is PASS. The value of the variable is set to the verdict of the most recent test case run in the suite. This variable must be maintained and reset when the verdict changes.

II.2 Example

In this section, the test body sequencing is presented for the mandatory (i.e., not conditional) test cases defined for the LAPD protocol.

It is assumed that the first line of each preamble and postamble defined in this document is modified to include the following statement :

[(MINIMIZED) AND (PREV_VERDICT)]

where MINIMIZED is a test suite parameter and PREV_VERDICT is a test suite boolean variable. If a tester wants to use the suggested test sequencing, MINIMIZED is set to TRUE. The boolean variable called PREV_VERDICT is set to TRUE, if the previous test verdict (after the test body is run) is PASS and to FALSE if FAIL. For example, the preamble for state s7.0 is modified as follows:

Dynamic Behaviour				
Reference	LAPD/PREAMBLE/DL70_PREAMBLE			
Identifier	DL70_PREAMBLE			
Purpose	Procedure used to place the IUT in test state 7.0 - Multiple Frame Established/Normal/Normal.			
Defaults Reference:				
Behaviour Description	Label	Constraint Reference	Verdict	Comments
DL70_PREAMBLE [(MINIMIZED) AND (PREV_VERDICT)] !SABME START T200 ?UA (V_R:=0,V_S:=0,V_A:=0) +DL70_UNEXPECTED GOTO L100 ?OTHERWISE ?TIMEOUT T200 [NOT ((MINIMIZED) AND (PREV_VERDICT))]	L100	SABME1_NC UA1_UR	 F F	P=1 F=1

The test sequence given below has the format of two columns where the first column represents the order to run the test bodies and the second column is the identifier of the test body. There are several procedures used in the table (labeled as PROC) that are defined at the end in terms of the PDU exchanges between the IUT and the tester. These procedures are not defined in the main body of this document and must be added to the test suite.

There are approximately 500 mandatory (i.e., not conditional) test cases in the LAPD abstract conformance test suite as defined in this document. The minimization method requires a total of approximately 2200 PDU exchanges (including the procedures) whereas executing preambles and postambles at each test case results in 3900 PDU exchanges. Therefore, an approximate reduction of 2 to 1 is obtained by the minimization technique if every test verdict is PASS. The actual run time ratio may vary depending on the test suite implementation.

References

- [1] A.V.Aho, A.T.Dahbura, D.Lee and M.U.Uyar, "An optimization technique for protocol conformance test generation based on UIO sequences and Chinese postman tours," *Proc. 8th Int'l. Symp. on Protocol Specification, Testing and Verification*, North Holland, ed's. S.Aggarwal and K.K.Sabnani, pp. 75-86, 1988.
- [2] K.K.Sabnani and A.T.Dahbura, "A protocol testing procedure," *Computer Networks*, pp. 285-297, vol. 15, no 4, 1988.
- [3] M.U.Uyar and A.T.Dahbura, "Optimal test sequence generation for protocols: the Chinese postman algorithm applied to Q.931," *Proc. IEEE Global Telecommunications Conf.*, pp. 68-72, 1986.

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
1	DL40_V08
2	DL50_V10
3	DL50_V04
4	DL70_N01
5	DL70_N02
6	DL70_N03
7	DL70_N04
8	DL70_N05
9	DL70_N06
10	DL70_N07
11	DL70_N08
12	DL70_N09
13	DL70_N10
14	DL70_N11
15	DL70_N12
16	DL70_N13
17	DL70_N14
18	DL70_N15
19	DL70_N16
20	DL70_N17
21	DL70_N18
22	DL70_N19
23	DL70_N20
24	DL70_N21
25	DL70_N22
26	DL70_N23
27	DL70_N24
28	DL70_N25
29	DL70_N26
30	DL70_N27
31	DL70_V17
32	DL70_V14
33	DL70_V13
34	DL50_V05
35	DL70_V08
36	DL71_V47
37	DL71_V46
38	DL71_V32
39	DL71_I04
40	DL71_V31
41	DL71_V30
42	DL71_V23

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
43	DL71_I01
44	DL71_V21
45	DL71_V20
46	DL71_V45
47	DL71_V44
48	DL71_V10
49	DL71_V08
50	DL71_V13
51	DL50_V06
52	DL70_V10
53	DL71_V14
54	DL70_V20
55	DL71_V17
56	DL70_V21
57	DL71_N01
58	DL70_I01
59	DL71_N02
60	DL70_V23
61	DL71_N03
62	DL70_V30
63	DL71_N04
64	DL70_V31
65	DL71_N05
66	DL70_I04
67	DL71_N06
68	DL70_V32
69	DL71_N07
70	DL70_V44
71	DL71_N08
72	DL70_V45
73	DL71_N09
74	DL70_V46
75	DL71_N10
76	DL70_V47
77	DL71_N11
78	DL70_V36
79	DL85_V46
80	DL85_V35
81	DL85_V34
82	DL85_V31
83	DL85_V29
84	DL85_V28

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
85	DL85_V33
86	DL85_V32
87	DL85_V30
88	DL85_V13
89	DL50_V07
90	DL70_V37
91	DL85_V14
92	DL70_I06
93	DL85_V15
94	DL70_V39
95	DL85_V17
96	DL70_V56
97	DL80_V35
98	DL80_V34
99	DL80_V46
100	DL80_V33
101	DL80_V32
102	DL80_V27
103	DL80_V25
104	DL80_V24
105	DL80_V23
106	DL80_V21
107	DL80_V20
108	DL80_V13
109	DL50_V11
110	DL70_V57
111	DL80_V14
112	+proc(s7.0_to_s4.0)
113	DL40_V09
114	DL50_I02
115	+proc(s7.0_to_s4.0)
116	DL40_V10
117	DL50_I08
118	+proc(s7.0_to_s4.0)
119	DL40_I01
120	DL50_I09
121	+proc(s7.0_to_s4.0)
122	DL40_I03
123	DL50_I10
124	+proc(s7.0_to_s4.0)
125	DL40_I04
126	DL50_I11

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
127	+proc(s7.0_to_s4.0)
128	DL40_I05
129	DL50_I12
130	+proc(s7.0_to_s4.0)
131	DL40_I06
132	DL50_I13
133	+proc(s7.0_to_s4.0)
134	DL40_I07
135	DL50_I14
136	+proc(s7.0_to_s4.0)
137	DL40_I08
138	DL50_I15
139	+proc(s7.0_to_s4.0)
140	DL40_I09
141	DL50_I16
142	+proc(s7.0_to_s4.0)
143	DL40_I10
144	DL50_I17
145	+proc(s7.0_to_s4.0)
146	DL40_I11
147	DL50_I18
148	+proc(s7.0_to_s4.0)
149	DL40_I12
150	DL50_I19
151	+proc(s7.0_to_s4.0)
152	DL40_I13
153	DL50_I20
154	+proc(s7.0_to_s4.0)
155	DL40_I14
156	DL50_I21
157	+proc(s7.0_to_s4.0)
158	DL40_I16
159	DL50_V12
160	+proc(s7.0_to_s4.0)
161	DL40_I17
162	DL50_N01
163	+proc(s7.0_to_s4.0)
164	DL40_N01
165	DL50_N02
166	+proc(s7.0_to_s4.0)
167	DL40_N02
168	DL50_N03

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
169	+proc(s7.0_to_s4.0)
170	DL40_N03
171	DL50_N04
172	+proc(s7.0_to_s7.4)
173	DL74_V13
174	DL50_N05
175	+proc(s7.0_to_s7.4)
176	DL74_V14
177	+proc(s7.0_to_s7.4)
178	DL74_V17
179	+proc(s7.0_to_s7.4)
180	DL74_N01
181	+proc(s7.0_to_s7.4)
182	DL74_N02
183	+proc(s7.0_to_s7.4)
184	DL74_N03
185	+proc(s7.0_to_s7.4)
186	DL74_N04
187	+proc(s7.0_to_s7.4)
188	DL74_N05
189	+proc(s7.0_to_s7.4)
190	DL74_N06
191	+proc(s7.0_to_s7.4)
192	DL74_N07
193	+proc(s7.0_to_s7.4)
194	DL74_N08
195	+proc(s7.0_to_s7.4)
196	DL74_N09
197	+proc(s7.0_to_s7.4)
198	DL74_N10
199	+proc(s7.0_to_s7.4)
200	DL74_N11
201	+proc(s7.0_to_s7.4)
202	DL74_N12
203	+proc(s7.0_to_s7.4)
204	DL74_N13
205	+proc(s7.0_to_s7.4)
206	DL74_N14
207	+proc(s7.0_to_s7.4)
208	DL74_N15
209	+proc(s7.0_to_s7.4)
210	DL74_N16

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
211	+proc(s7.0_to_s7.4)
212	DL74_N17
213	+proc(s7.0_to_s7.4)
214	DL74_N18
215	+proc(s7.0_to_s7.4)
216	DL74_N19
217	+proc(s7.0_to_s7.4)
218	DL74_N20
219	+proc(s7.0_to_s7.4)
220	DL74_N21
221	+proc(s7.0_to_s7.4)
222	DL74_N22
223	+proc(s7.0_to_s7.4)
224	DL74_N23
225	+proc(s7.0_to_s7.4)
226	DL74_N24
227	+proc(s7.0_to_s7.4)
228	DL74_N25
229	+proc(s7.0_to_s7.4)
230	DL74_N26
231	+proc(s7.0_to_s7.4)
232	DL74_N27
233	+proc(s7.0_to_s7.4)
234	DL74_V08
235	DL71_N12
236	+proc(s7.0_to_s7.4)
237	DL74_V10
238	DL71_N13
239	+proc(s7.0_to_s7.4)
240	DL74_V20
241	DL71_N14
242	+proc(s7.0_to_s7.4)
243	DL74_V21
244	DL71_N15
245	+proc(s7.0_to_s7.4)
246	DL74_I01
247	DL71_N16
248	+proc(s7.0_to_s7.4)
249	DL74_V23
250	DL71_N17
251	+proc(s7.0_to_s7.4)
252	DL74_V30

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
253	DL71_N18
254	+proc(s7.0_to_s7.4)
255	DL74_V31
256	DL71_N19
257	+proc(s7.0_to_s7.4)
258	DL74_I04
259	DL71_N20
260	+proc(s7.0_to_s7.4)
261	DL74_V32
262	DL71_N21
263	+proc(s7.0_to_s7.4)
264	DL74_V36
265	DL85_N01
266	+proc(s7.0_to_s7.4)
267	DL74_V37
268	DL85_N02
269	+proc(s7.0_to_s7.4)
270	DL74_I06
271	DL85_N03
272	+proc(s7.0_to_s7.4)
273	DL74_V39
274	DL85_N04
275	+proc(s7.0_to_s7.4)
276	DL74_V44
277	DL85_N05
278	+proc(s7.0_to_s7.4)
279	DL74_V45
280	DL85_N06
281	+proc(s7.0_to_s7.4)
282	DL74_V46
283	DL85_N07
284	+proc(s7.0_to_s7.4)
285	DL74_V47
286	DL85_N08
287	+proc(s7.0_to_s7.4)
288	DL74_V56
289	DL85_N09
290	+proc(s7.0_to_s7.4)
291	+proc(s7.4_to_s7.5)
292	DL75_V13
293	DL50_N06
294	+proc(s7.0_to_s7.4)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
295	+proc(s7.4_to_s7.5)
296	DL75_V14
297	+proc(s7.0_to_s7.4)
298	+proc(s7.4_to_s7.5)
299	DL75_V17
300	+proc(s7.0_to_s7.4)
301	+proc(s7.4_to_s7.5)
302	DL75_N01
303	+proc(s7.0_to_s7.4)
304	+proc(s7.4_to_s7.5)
305	DL75_N02
306	+proc(s7.0_to_s7.4)
307	+proc(s7.4_to_s7.5)
308	DL75_N03
309	+proc(s7.0_to_s7.4)
310	+proc(s7.4_to_s7.5)
311	DL75_N04
312	+proc(s7.0_to_s7.4)
313	+proc(s7.4_to_s7.5)
314	DL75_N05
315	+proc(s7.0_to_s7.4)
316	+proc(s7.4_to_s7.5)
317	DL75_N06
318	+proc(s7.0_to_s7.4)
319	+proc(s7.4_to_s7.5)
320	DL75_N07
321	+proc(s7.0_to_s7.4)
322	+proc(s7.4_to_s7.5)
323	DL75_N08
324	+proc(s7.0_to_s7.4)
325	+proc(s7.4_to_s7.5)
326	DL75_N09
327	+proc(s7.0_to_s7.4)
328	+proc(s7.4_to_s7.5)
329	DL75_N10
330	+proc(s7.0_to_s7.4)
331	+proc(s7.4_to_s7.5)
332	DL75_N11
333	+proc(s7.0_to_s7.4)
334	+proc(s7.4_to_s7.5)
335	DL75_N12
336	+proc(s7.0_to_s7.4)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
337	+proc(s7.4_to_s7.5)
338	DL75_N13
339	+proc(s7.0_to_s7.4)
340	+proc(s7.4_to_s7.5)
341	DL75_N14
342	+proc(s7.0_to_s7.4)
343	+proc(s7.4_to_s7.5)
344	DL75_N15
345	+proc(s7.0_to_s7.4)
346	+proc(s7.4_to_s7.5)
347	DL75_N16
348	+proc(s7.0_to_s7.4)
349	+proc(s7.4_to_s7.5)
350	DL75_N17
351	+proc(s7.0_to_s7.4)
352	+proc(s7.4_to_s7.5)
353	DL75_N18
354	+proc(s7.0_to_s7.4)
355	+proc(s7.4_to_s7.5)
356	DL75_N19
357	+proc(s7.0_to_s7.4)
358	+proc(s7.4_to_s7.5)
359	DL75_N20
360	+proc(s7.0_to_s7.4)
361	+proc(s7.4_to_s7.5)
362	DL75_N21
363	+proc(s7.0_to_s7.4)
364	+proc(s7.4_to_s7.5)
365	DL75_N22
366	+proc(s7.0_to_s7.4)
367	+proc(s7.4_to_s7.5)
368	DL75_N23
369	+proc(s7.0_to_s7.4)
370	+proc(s7.4_to_s7.5)
371	DL75_N24
372	+proc(s7.0_to_s7.4)
373	+proc(s7.4_to_s7.5)
374	DL75_N25
375	+proc(s7.0_to_s7.4)
376	+proc(s7.4_to_s7.5)
377	DL75_N26
378	+proc(s7.0_to_s7.4)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
379	+proc(s7.4_to_s7.5)
380	DL75_N27
381	+proc(s7.0_to_s7.4)
382	+proc(s7.4_to_s7.5)
383	DL75_V08
384	DL71_N22
385	+proc(s7.0_to_s7.4)
386	+proc(s7.4_to_s7.5)
387	DL75_V10
388	DL71_N23
389	+proc(s7.0_to_s7.4)
390	+proc(s7.4_to_s7.5)
391	DL75_V20
392	DL71_N24
393	+proc(s7.0_to_s7.4)
394	+proc(s7.4_to_s7.5)
395	DL75_V21
396	DL71_N25
397	+proc(s7.0_to_s7.4)
398	+proc(s7.4_to_s8.4)
399	DL84_V13
400	DL50_N07
401	+proc(s7.0_to_s7.4)
402	+proc(s7.4_to_s8.4)
403	DL84_V14
404	+proc(s7.0_to_s7.4)
405	+proc(s7.4_to_s8.4)
406	DL84_V15
407	+proc(s7.0_to_s7.4)
408	+proc(s7.4_to_s8.4)
409	DL84_V17
410	+proc(s7.0_to_s7.4)
411	+proc(s7.4_to_s8.4)
412	DL84_N01
413	+proc(s7.0_to_s7.4)
414	+proc(s7.4_to_s8.4)
415	DL84_N02
416	+proc(s7.0_to_s7.4)
417	+proc(s7.4_to_s8.4)
418	DL84_N03
419	+proc(s7.0_to_s7.4)
420	+proc(s7.4_to_s8.4)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
421	DL84_N04
422	+proc(s7.0_to_s7.4)
423	+proc(s7.4_to_s8.4)
424	DL84_N05
425	+proc(s7.0_to_s7.4)
426	+proc(s7.4_to_s8.4)
427	DL84_N06
428	+proc(s7.0_to_s7.4)
429	+proc(s7.4_to_s8.4)
430	DL84_N07
431	+proc(s7.0_to_s7.4)
432	+proc(s7.4_to_s8.4)
433	DL84_N08
434	+proc(s7.0_to_s7.4)
435	+proc(s7.4_to_s8.4)
436	DL84_N09
437	+proc(s7.0_to_s7.4)
438	+proc(s7.4_to_s8.4)
439	DL84_N10
440	+proc(s7.0_to_s7.4)
441	+proc(s7.4_to_s8.4)
442	DL84_N11
443	+proc(s7.0_to_s7.4)
444	+proc(s7.4_to_s8.4)
445	DL84_N12
446	+proc(s7.0_to_s7.4)
447	+proc(s7.4_to_s8.4)
448	DL84_N13
449	+proc(s7.0_to_s7.4)
450	+proc(s7.4_to_s8.4)
451	DL84_N14
452	+proc(s7.0_to_s7.4)
453	+proc(s7.4_to_s8.4)
454	DL84_N15
455	+proc(s7.0_to_s7.4)
456	+proc(s7.4_to_s8.4)
457	DL84_N16
458	+proc(s7.0_to_s7.4)
459	+proc(s7.4_to_s8.4)
460	DL84_V44
461	+proc(s7.0_to_s7.4)
462	+proc(s7.4_to_s8.4)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
463	DL84_N17
464	+proc(s7.0_to_s7.4)
465	+proc(s7.4_to_s8.4)
466	DL84_N18
467	+proc(s7.0_to_s7.4)
468	+proc(s7.4_to_s8.4)
469	DL84_N19
470	+proc(s7.0_to_s7.4)
471	+proc(s7.4_to_s8.4)
472	DL84_N20
473	+proc(s7.0_to_s7.4)
474	+proc(s7.4_to_s8.4)
475	DL84_N21
476	+proc(s7.0_to_s7.4)
477	+proc(s7.4_to_s8.4)
478	DL84_N22
479	+proc(s7.0_to_s7.4)
480	+proc(s7.4_to_s8.4)
481	DL84_N23
482	+proc(s7.0_to_s7.4)
483	+proc(s7.4_to_s8.4)
484	DL84_N24
485	+proc(s7.0_to_s7.4)
486	+proc(s7.4_to_s8.4)
487	DL84_N25
488	+proc(s7.0_to_s7.4)
489	+proc(s7.4_to_s8.4)
490	DL84_N26
491	+proc(s7.0_to_s7.4)
492	+proc(s7.4_to_s8.4)
493	DL84_N27
494	+proc(s7.0_to_s7.4)
495	+proc(s7.4_to_s8.4)
496	DL84_V08
497	DL71_N26
498	+proc(s7.0_to_s7.4)
499	+proc(s7.4_to_s8.4)
500	DL84_V10
501	DL71_N27
502	+proc(s7.0_to_s7.4)
503	+proc(s7.4_to_s8.4)
504	DL84_V22

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
505	DL71_V36
506	DL85_N10
507	+proc(s7.0_to_s7.4)
508	+proc(s7.4_to_s8.4)
509	DL84_V26
510	DL71_V37
511	DL85_N11
512	+proc(s7.0_to_s7.4)
513	+proc(s7.4_to_s8.4)
514	DL84_V30
515	DL85_N12
516	+proc(s7.0_to_s7.4)
517	+proc(s7.4_to_s8.4)
518	DL84_V20
519	DL80_V15
520	+proc(s7.0_to_s7.4)
521	+proc(s7.4_to_s8.4)
522	DL84_V21
523	DL80_V17
524	+proc(s7.0_to_s7.4)
525	+proc(s7.4_to_s8.4)
526	DL84_V23
527	DL80_N01
528	+proc(s7.0_to_s7.4)
529	+proc(s7.4_to_s8.4)
530	DL84_V24
531	DL80_N02
532	+proc(s7.0_to_s7.4)
533	+proc(s7.4_to_s8.4)
534	DL84_V25
535	DL80_N03
536	+proc(s7.0_to_s7.4)
537	+proc(s7.4_to_s8.4)
538	DL84_V27
539	DL80_N04
540	+proc(s7.0_to_s7.4)
541	+proc(s7.4_to_s8.4)
542	DL84_V28
543	DL85_N13
544	+proc(s7.0_to_s7.4)
545	+proc(s7.4_to_s8.4)
546	DL84_V29

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
547	DL85_N14
548	+proc(s7.0_to_s7.4)
549	+proc(s7.4_to_s8.4)
550	DL84_V31
551	DL85_N15
552	+proc(s7.0_to_s7.4)
553	+proc(s7.4_to_s8.4)
554	DL84_V32
555	DL85_N16
556	+proc(s7.0_to_s7.4)
557	+proc(s7.4_to_s8.4)
558	DL84_V33
559	DL85_V44
560	+proc(s7.0_to_s7.4)
561	+proc(s7.4_to_s8.4)
562	DL84_V46
563	DL85_N17
564	+proc(s7.0_to_s7.4)
565	+proc(s7.4_to_s8.4)
566	DL84_V34
567	DL85_N18
568	+proc(s7.0_to_s7.4)
569	+proc(s7.4_to_s8.4)
570	DL84_V35
571	DL85_N19
572	+proc(s7.0_to_s7.4)
573	+proc(s7.4_to_s8.4)
574	DL84_V12
575	DL50_N08
576	+proc(s7.0_to_s7.4)
577	DL74_V12
578	DL50_N09
579	+proc(s7.0_to_s8.0)
580	DL80_N05
581	+proc(s7.0_to_s8.0)
582	DL80_N06
583	+proc(s7.0_to_s8.0)
584	DL80_N07
585	+proc(s7.0_to_s8.0)
586	DL80_N08
587	+proc(s7.0_to_s8.0)
588	DL80_N09

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
589	+proc(s7.0_to_s8.0)
590	DL80_N10
591	+proc(s7.0_to_s8.0)
592	DL80_N11
593	+proc(s7.0_to_s8.0)
594	DL80_N12
595	+proc(s7.0_to_s8.0)
596	DL80_N13
597	+proc(s7.0_to_s8.0)
598	DL80_N14
599	+proc(s7.0_to_s8.0)
600	DL80_N15
601	+proc(s7.0_to_s8.0)
602	DL80_N16
603	+proc(s7.0_to_s8.0)
604	DL80_V44
605	+proc(s7.0_to_s8.0)
606	DL80_N17
607	+proc(s7.0_to_s8.0)
608	DL80_N18
609	+proc(s7.0_to_s8.0)
610	DL80_N19
611	+proc(s7.0_to_s8.0)
612	DL80_N20
613	+proc(s7.0_to_s8.0)
614	DL80_N21
615	+proc(s7.0_to_s8.0)
616	DL80_N22
617	+proc(s7.0_to_s8.0)
618	DL80_N23
619	+proc(s7.0_to_s8.0)
620	DL80_N24
621	+proc(s7.0_to_s8.0)
622	DL80_N25
623	+proc(s7.0_to_s8.0)
624	DL80_N26
625	+proc(s7.0_to_s8.0)
626	DL80_N27
627	+proc(s7.0_to_s8.0)
628	DL80_V08
629	DL71_I06
630	DL85_N20

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
631	+proc(s7.0_to_s8.0)
632	DL80_V10
633	DL71_V39
634	DL85_N21
635	+proc(s7.0_to_s8.0)
636	DL80_V22
637	DL71_V36
638	DL80_V26
639	DL71_V57
640	DL80_V30
641	DL85_N22
642	+proc(s7.0_to_s8.0)
643	DL80_V28
644	DL85_N23
645	+proc(s7.0_to_s8.0)
646	DL80_V29
647	DL85_N24
648	+proc(s7.0_to_s8.0)
649	DL80_V31
650	DL85_N25
651	+proc(s7.0_to_s8.0)
652	+proc(s8.0_to_s8.1)
653	DL81_V13
654	DL50_N10
655	+proc(s7.0_to_s8.0)
656	+proc(s8.0_to_s8.1)
657	DL81_V14
658	+proc(s7.0_to_s8.0)
659	+proc(s8.0_to_s8.1)
660	DL81_V15
661	+proc(s7.0_to_s8.0)
662	+proc(s8.0_to_s8.1)
663	DL81_V17
664	+proc(s7.0_to_s8.0)
665	+proc(s8.0_to_s8.1)
666	DL81_N01
667	+proc(s7.0_to_s8.0)
668	+proc(s8.0_to_s8.1)
669	DL81_N02
670	+proc(s7.0_to_s8.0)
671	+proc(s8.0_to_s8.1)
672	DL81_N03

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
673	+proc(s7.0_to_s8.0)
674	+proc(s8.0_to_s8.1)
675	DL81_N04
676	+proc(s7.0_to_s8.0)
677	+proc(s8.0_to_s8.1)
678	DL81_N05
679	+proc(s7.0_to_s8.0)
680	+proc(s8.0_to_s8.1)
681	DL81_N06
682	+proc(s7.0_to_s8.0)
683	+proc(s8.0_to_s8.1)
684	DL81_N07
685	+proc(s7.0_to_s8.0)
686	+proc(s8.0_to_s8.1)
687	DL81_N08
688	+proc(s7.0_to_s8.0)
689	+proc(s8.0_to_s8.1)
690	DL81_N09
691	+proc(s7.0_to_s8.0)
692	+proc(s8.0_to_s8.1)
693	DL81_N10
694	+proc(s7.0_to_s8.0)
695	+proc(s8.0_to_s8.1)
696	DL81_N11
697	+proc(s7.0_to_s8.0)
698	+proc(s8.0_to_s8.1)
699	DL81_N12
700	+proc(s7.0_to_s8.0)
701	+proc(s8.0_to_s8.1)
702	DL81_N13
703	+proc(s7.0_to_s8.0)
704	+proc(s8.0_to_s8.1)
705	DL81_N14
706	+proc(s7.0_to_s8.0)
707	+proc(s8.0_to_s8.1)
708	DL81_N15
709	+proc(s7.0_to_s8.0)
710	+proc(s8.0_to_s8.1)
711	DL81_N16
712	+proc(s7.0_to_s8.0)
713	+proc(s8.0_to_s8.1)
714	DL81_V44

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
715	+proc(s7.0_to_s8.0)
716	+proc(s8.0_to_s8.1)
717	DL81_N17
718	+proc(s7.0_to_s8.0)
719	+proc(s8.0_to_s8.1)
720	DL81_N18
721	+proc(s7.0_to_s8.0)
722	+proc(s8.0_to_s8.1)
723	DL81_N19
724	+proc(s7.0_to_s8.0)
725	+proc(s8.0_to_s8.1)
726	DL81_N20
727	+proc(s7.0_to_s8.0)
728	+proc(s8.0_to_s8.1)
729	DL81_N21
730	+proc(s7.0_to_s8.0)
731	+proc(s8.0_to_s8.1)
732	DL81_N22
733	+proc(s7.0_to_s8.0)
734	+proc(s8.0_to_s8.1)
735	DL81_N23
736	+proc(s7.0_to_s8.0)
737	+proc(s8.0_to_s8.1)
738	DL81_N24
739	+proc(s7.0_to_s8.0)
740	+proc(s8.0_to_s8.1)
741	DL81_N25
742	+proc(s7.0_to_s8.0)
743	+proc(s8.0_to_s8.1)
744	DL81_N26
745	+proc(s7.0_to_s8.0)
746	+proc(s8.0_to_s8.1)
747	DL81_N27
748	+proc(s7.0_to_s8.0)
749	+proc(s8.0_to_s8.1)
750	DL81_V08
751	+proc(s7.1_to_s7.5)
752	DL75_I01
753	+proc(s7.1_to_s7.5)
754	DL75_V23
755	+proc(s7.1_to_s7.5)
756	DL75_V30

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
757	+proc(s7.1_to_s7.5)
758	DL75_V31
759	+proc(s7.1_to_s7.5)
760	DL75_I04
761	+proc(s7.1_to_s7.5)
762	DL75_V32
763	+proc(s7.1_to_s7.5)
764	DL75_V44
765	DL85_N26
766	+proc(s7.0_to_s8.0)
767	+proc(s8.0_to_s8.1)
768	DL81_V10
769	+proc(s7.1_to_s7.5)
770	DL75_V45
771	DL85_N27
772	+proc(s7.0_to_s8.0)
773	+proc(s8.0_to_s8.1)
774	DL81_V22
775	+proc(s7.1_to_s7.5)
776	DL75_V36
777	DL85_V08
778	+proc(s7.1_to_s7.5)
779	DL75_V37
780	DL85_V10
781	+proc(s7.1_to_s7.5)
782	DL75_I06
783	DL85_V22
784	+proc(s7.1_to_s7.5)
785	DL75_V39
786	DL85_V26
787	+proc(s7.1_to_s7.5)
788	DL75_V46
789	DL85_V20
790	+proc(s8.0_to_s8.1)
791	DL81_V26
792	+proc(s7.1_to_s7.5)
793	DL75_V47
794	DL85_V21
795	+proc(s8.0_to_s8.1)
796	DL81_V30
797	DL85_V23
798	+proc(s8.0_to_s8.1)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
799	DL81_V32
800	+proc(s8.0_to_s8.1)
801	DL81_V33
802	+proc(s8.0_to_s8.1)
803	DL81_V46
804	+proc(s8.0_to_s8.1)
805	DL81_V20
806	+proc(s8.0_to_s8.1)
807	DL81_V21
808	+proc(s8.0_to_s8.1)
809	DL81_V23
810	+proc(s8.0_to_s8.1)
811	DL81_V24
812	+proc(s8.0_to_s8.1)
813	DL81_V25
814	+proc(s8.0_to_s8.1)
815	DL81_V27
816	+proc(s8.0_to_s8.1)
817	DL81_V34
818	+proc(s8.0_to_s8.1)
819	DL81_V35
820	+proc(s8.0_to_s8.1)
821	DL81_V28
822	DL85_V24
823	+proc(s8.0_to_s8.1)
824	DL81_V29
825	DL85_V25
826	+proc(s8.0_to_s8.1)
827	DL81_V31
828	DL85_V27
829	+proc(s8.0_to_s8.1)
830	DL81_V12
831	DL50_N11
832	+proc(s7.0_to_s8.0)
833	DL80_V12
834	DL50_V08
835	+proc(s7.1_to_s7.5)
836	DL75_V56
837	DL85_V12
838	+proc(s5.0_to_s4.0)
839	DL40_N04
840	+proc(s5.0_to_s4.0)

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
841	DL40_N05
842	+proc(s5.0_to_s4.0)
843	DL40_N06
844	+proc(s5.0_to_s4.0)
845	DL40_N07
846	+proc(s5.0_to_s4.0)
847	DL40_N08
848	+proc(s5.0_to_s4.0)
849	DL40_N09
850	+proc(s5.0_to_s4.0)
851	DL40_N10
852	+proc(s5.0_to_s4.0)
853	DL40_N11
854	+proc(s5.0_to_s4.0)
855	DL40_V11
856	DL70_V12
857	+proc(s5.0_to_s4.0)
858	DL40_V04
859	+proc(s7.1_to_s7.5)
860	DL75_V12
861	+proc(s5.0_to_s4.0)
862	DL40_V06
863	DL71_V12
864	+proc(s5.0_to_s4.0)

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s5.0_to_s4.0 PROC_DL50_TO_DL40 Input transition from state s5.0_to_s4.0			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL50_TO_DL40 !DM START Td ?TIMEOUT Td +DL50_UNEXPECTED GOTO L500 ?OTHERWISE	L500	DM1_NR	I	F=1

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s7.0_to_s4.0 PROC_DL70_TO_DL40 Input transition from state s7.0_to_s4.0			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL70_TO_DL40 !DISC START T200 ?UA +DL70_UNEXPECTED GOTO L700 ?OTHERWISE ?TIMEOUT T200	L700	DISC0_NC UA0_UR	I I	P=0 F=0

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s7.0_to_s7.4 PROC_DL70_TO_DL74 Input transition from state s7.0_to_s7.4			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL70_TO_DL74 !RNR(V_A:=V_S) START Td ?TIMEOUT Td +DL70_UNEXPECTED GOTO L700 ?OTHERWISE	L700	RNR0_NR(V_S)	I	F=0

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s7.1_to_s7.5 PROC_DL71_TO_DL75 Input transition from state s7.1_to_s7.5			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL71_TO_DL75 !RNR(V_A:=V_S) START Td ?TIMEOUT Td +DL71_UNEXPECTED GOTO L710 ?OTHERWISE	L710	RNR0_NR(V_S)	I	F=0

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s7.4_to_s7.5 PROC_DL74_TO_DL75 Input transition from state s7.4_to_s7.5			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL74_TO_DL75 (N_R:=V_S+1) !I(V_A:=V_S) START T200 ?REJ +DL74_UNEXPECTED GOTO L740 ?OTHERWISE ?TIMEOUT T200	L740	I0_NC(N_R,V_S) REJ0_UR(V_R)	I I	P=0 F=0

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s7.4_to_s8.4 PROC_DL74_TO_DL84 Input transition from state s7.4_to_s8.4			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL74_TO_DL84 +DL74_I1_SETUP START T200 (N_S:=V_S-1) ?TIMEOUT T200 START T200 ?RR +DL74_UNEXPECTED GOTO L741 ?OTHERWISE ?TIMEOUT T200 +DL74_UNEXPECTED GOTO L740 ?OTHERWISE	L740 L741	RR1_UC(V_R)	I I I	P=1

Dynamic Behaviour				
Reference Identifier Purpose	TRANSITION/s8.0_to_s8.1 PROC_DL80_TO_DL81 Input transition from state s8.0_to_s8.1			
Behavior Description	Label	Constraint Reference	Verdict	Comments
PROC_DL80_TO_DL81 (N_S:=V_R+1) !I START T200 ?REJ +DL80_UNEXPECTED GOTO L800 ?OTHERWISE ?TIMEOUT T200	L800	IO_NC(N_S,V_R) REJO_UR(V_R)	 I I	P=0 F=0

APPENDIX III

Test Case Selection

III.1 Introduction

This appendix provides information for test case selection of the tests contained in this abstract test suite. Section III.2 contains a list of the European NET3 test cases in this test suite. Section III.3 contains a list of boolean expressions with the associated test cases. Table III-2 contains a test selection matrix.

III.2 European NET3 Test Cases

The test cases listed in Table III-1 were developed by NIUF and CCITT members in the International Telephone and Telegraph Consultative Committee (CCITT) for covering the European testing requirements (NET3). While these NET3 test cases conform to the CCITT Recommendation Q.921, they are not required for testing in North America. They remain in this test suite publication for information only.

For testing in North America, the following NET3 test cases may be deselected from the SYSTEM Group.

Table III-1. Deselection List of NET3 Test Cases		
DS40_1_1	DS74_5_1	DS70_8_5_1b
DS40_1_2	DS70_5_2	DS70_8_5_1c
DS40_1_3	DS60_6_1	DS40_8_6_1
DS40_1_4	DS10_7_1	DS40_8_6_2
DS70_1_5	DS10_7_2	DS10_8_7
DS40_2_1	DS40_7_3	DS70_8_8_1a
DS70_2_2	DS10_7_4	DS70_8_8_1b
DS70_2_3	DS40_8_1_1	DS70_8_8_2_1
DS80_2_4	DS70_8_2_1	DS70_8_8_2_2
DS70_3_1	DS40_8_2_2	DS70_8_8_4
DS70_4_1	DS70_8_3	DS70_9_1
DS70_4_2a	DS70_8_4_1	DS70_9_2
DS70_4_2b	DS70_8_4_2	
DS70_4_3	DS70_8_4_3	
DS70_4_4	DS70_8_5_1a	

III.3 Boolean Expressions for LAPD Test Case Selection

The following test cases can be executed only if the associated Boolean expression is true. Other test cases not listed here shall be executed unconditionally. Table III-2 provides a list of test cases with the associated Selection Expression Number corresponding to the boolean expressions listed in this section.

1. TEI_AUTO

DM74_V11, V15; DM80_V11; DM84_V11, V15

2. UNSOLUA_ID_VER

DMY0_V03, V04, V07-V10, y=7,8

3. TEI_AUTO AND CAN_INIT_ID_REQ

DM10_V01-V08, I01, I02, N01-N05; All DM20 and DL20 test cases; DS10_7_2,
DS10_7_4; DS20_N01-N14

4. STABLE_IN_STATE4

DM40_V02, V05, V06, V11, V12, I01, I03, I04, N01-N04; All DL40 except DL40_V01;
DS40_N01-N15; DS40_7_3, DS40_8_1_1, DS40_8_2_2, DS40_8_6_1, DS40_8_6_2,
DS10_8_7

5. NOT IDLE_STATE4 AND STABLE_IN_STATE4

DL40_V01

6. NOT IDLE_STATE4 OR CAN_INIT_SABME

All DM50 and DL50 test cases (except DM50_V01, V03, V04, V07-V10, V14, V15, V17, V18;
DL50_N01-N10 - See 24); DS50_N15, DS50_N17

7. CAN_TEST_OWN_BUSY

All DL7x and 8x, x=2,3,6,7 cases except those listed in expressions 8, 20, 21, 22 and 23.

DL7x_V57, x=4,5; DL7x_58, x=0,1; DL8x_V47, x=0,1,4,5

8. CAN_CLR_OWN_BUSY AND CAN_TEST_OWN_BUSY

DL7x_V58, x=6,7; DL7x_V59, x=2,3

9. NOT ACT_ON_MDL_ERROR

DL51_N01-N10

10. CAN_SEND_SABME

DL7x_V01, x=0,1,4,5; DL8x_V01, x=0,1,4,5

11. **CAN_SEND_A_FRAME**
DL7x_V03, V27-V29, V33-V35, V40-V43, V52-V56, I03, I05, I07, x=0,1,4,5;
DL8x_V03, V40-43, V45, x=0,1,4,5; DS74_V18
12. **CAN_SEND_IFRAMES**
DL7x_V04, V24-V26, V48-V51, I02, x=0,1,4,5; DL8x_V04, V36-V39, x=0,1,4,5
13. **T203_IMPLEMENTED**
DL7x_V57, x=0,1; DL8x_V46, x=0,1,4,5
14. **Q921SW_PRESENT**
DS40_1_1, 1_2, 1_3, 1_4, 2_1, 2_2, 2_3, 2_4; DS70_4_2a, 4_2b, 4_3, 4_4; DS70_8_4_2; DS74_5_1
15. **UNBOUNDED_FRAME**
DS70_N02
16. **TEI_AUTO AND TEI_chk_IDReq**
DM70_V01; DM80_V01
17. **CAN_INIT_DISC**
All DM60 except DM60_V01, V03, V04 V07-V10, V15, V17
All DL60 except DL60_N01-N10
DS60_N15, N17
18. **UNSOLUA_ID_VER OR TEI_AUTO**
DM70_V13, V14; DM80_V13, V14; DM74_V13, V14; DM84_V13, V14
19. **CAN_INIT_DISC AND NOT ACT_ON_MDL_ERROR**
DL60_N01-N10
20. **CAN_SEND_SABME AND CAN_TEST_OWN_BUSY**
DL7x_V01, x=2,3,6,7; DL8x_V01, x=2,3,6,7
21. **CAN_SEND_A_IFRAME AND CAN_TEST_OWN_BUSY**
DL7x_V03, V27-V29, V33-V35, V40, V41,V43, V52-V56, I03, I05, I07, x=2,3,6,7; DL8x_V03, V40-V43, V45, x=2,3,6,7
22. **CAN_SEND_IFRAMES AND CAN_TEST_OWN_BUSY**
DL7x_V04, V24-V26, V48-V51, I02, x=2,3,6,7
DL8x_V04, V36-V39, x=2,3,6,7

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
85	DL85_V33
86	DL85_V32
87	DL85_V30
88	DL85_V13
89	DL50_V07
90	DL70_V37
91	DL85_V14
92	DL70_I06
93	DL85_V15
94	DL70_V39
95	DL85_V17
96	DL70_V56
97	DL80_V35
98	DL80_V34
99	DL80_V46
100	DL80_V33
101	DL80_V32
102	DL80_V27
103	DL80_V25
104	DL80_V24
105	DL80_V23
106	DL80_V21
107	DL80_V20
108	DL80_V13
109	DL50_V11
110	DL70_V57
111	DL80_V14
112	+proc(s7.0_to_s4.0)
113	DL40_V09
114	DL50_I02
115	+proc(s7.0_to_s4.0)
116	DL40_V10
117	DL50_I08
118	+proc(s7.0_to_s4.0)
119	DL40_I01
120	DL50_I09
121	+proc(s7.0_to_s4.0)
122	DL40_I03
123	DL50_I10
124	+proc(s7.0_to_s4.0)
125	DL40_I04
126	DL50_I11

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
127	+proc(s7.0_to_s4.0)
128	DL40_I05
129	DL50_I12
130	+proc(s7.0_to_s4.0)
131	DL40_I06
132	DL50_I13
133	+proc(s7.0_to_s4.0)
134	DL40_I07
135	DL50_I14
136	+proc(s7.0_to_s4.0)
137	DL40_I08
138	DL50_I15
139	+proc(s7.0_to_s4.0)
140	DL40_I09
141	DL50_I16
142	+proc(s7.0_to_s4.0)
143	DL40_I10
144	DL50_I17
145	+proc(s7.0_to_s4.0)
146	DL40_I11
147	DL50_I18
148	+proc(s7.0_to_s4.0)
149	DL40_I12
150	DL50_I19
151	+proc(s7.0_to_s4.0)
152	DL40_I13
153	DL50_I20
154	+proc(s7.0_to_s4.0)
155	DL40_I14
156	DL50_I21
157	+proc(s7.0_to_s4.0)
158	DL40_I16
159	DL50_V12
160	+proc(s7.0_to_s4.0)
161	DL40_I17
162	DL50_N01
163	+proc(s7.0_to_s4.0)
164	DL40_N01
165	DL50_N02
166	+proc(s7.0_to_s4.0)
167	DL40_N02
168	DL50_N03

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
169	+proc(s7.0_to_s4.0)
170	DL40_N03
171	DL50_N04
172	+proc(s7.0_to_s7.4)
173	DL74_V13
174	DL50_N05
175	+proc(s7.0_to_s7.4)
176	DL74_V14
177	+proc(s7.0_to_s7.4)
178	DL74_V17
179	+proc(s7.0_to_s7.4)
180	DL74_N01
181	+proc(s7.0_to_s7.4)
182	DL74_N02
183	+proc(s7.0_to_s7.4)
184	DL74_N03
185	+proc(s7.0_to_s7.4)
186	DL74_N04
187	+proc(s7.0_to_s7.4)
188	DL74_N05
189	+proc(s7.0_to_s7.4)
190	DL74_N06
191	+proc(s7.0_to_s7.4)
192	DL74_N07
193	+proc(s7.0_to_s7.4)
194	DL74_N08
195	+proc(s7.0_to_s7.4)
196	DL74_N09
197	+proc(s7.0_to_s7.4)
198	DL74_N10
199	+proc(s7.0_to_s7.4)
200	DL74_N11
201	+proc(s7.0_to_s7.4)
202	DL74_N12
203	+proc(s7.0_to_s7.4)
204	DL74_N13
205	+proc(s7.0_to_s7.4)
206	DL74_N14
207	+proc(s7.0_to_s7.4)
208	DL74_N15
209	+proc(s7.0_to_s7.4)
210	DL74_N16

ORDER OF EXECUTION FOR TEST CASES	
STEP	TEST BODY
211	+proc(s7.0_to_s7.4)
212	DL74_N17
213	+proc(s7.0_to_s7.4)
214	DL74_N18
215	+proc(s7.0_to_s7.4)
216	DL74_N19
217	+proc(s7.0_to_s7.4)
218	DL74_N20
219	+proc(s7.0_to_s7.4)
220	DL74_N21
221	+proc(s7.0_to_s7.4)
222	DL74_N22
223	+proc(s7.0_to_s7.4)
224	DL74_N23
225	+proc(s7.0_to_s7.4)
226	DL74_N24
227	+proc(s7.0_to_s7.4)
228	DL74_N25
229	+proc(s7.0_to_s7.4)
230	DL74_N26
231	+proc(s7.0_to_s7.4)
232	DL74_N27
233	+proc(s7.0_to_s7.4)
234	DL74_V08
235	DL71_N12
236	+proc(s7.0_to_s7.4)
237	DL74_V10
238	DL71_N13
239	+proc(s7.0_to_s7.4)
240	DL74_V20
241	DL71_N14
242	+proc(s7.0_to_s7.4)
243	DL74_V21
244	DL71_N15
245	+proc(s7.0_to_s7.4)
246	DL74_I01
247	DL71_N16
248	+proc(s7.0_to_s7.4)
249	DL74_V23
250	DL71_N17
251	+proc(s7.0_to_s7.4)
252	DL74_V30

Table III-2. Test Case Selection (continued)	
Test Case Name	Selection Expression Number
DM50	
V01	34
V03-04	27
V07-V10	27
V14	28
V15-17	29
All others	6
DM60	
V01	30
V03-04	32
V07-V10	32
V14	33
V15-V17	31
All others	17
DM70	
V01	16
V03-04	2
V07-V10	2
V13-V14	18
DM74	
V11	1
V13-14	18
V15	1
DM80	
V01	16
V03-04	2
V07-V10	2
V11	1

Table III-2. Test Case Selection (continued)	
Test Case Name	Selection Expression Number
V13-14	18
DM84	
V11, V15	1
V13-V14	18
DL10	
I01-02	36
I10	36
I13	36
DL20	
All	3
DL40	
V01	5
All others	4
DL50	
N01-N10	24
All others	6
DL51	
N01-N10	9
DL60	
N01-N10	19
All others	17
DL70, 71, 74, 75	
V01	10
V03	11
V04	12
V24-26	12
V27-29	11
V33-35	11

Table III-2. Test Case Selection (continued)	
Test Case Name	Selection Expression Number
V40-43	11
V48-51	12
V52-56	11
V57 (DL74, DL75)	7
V57 (DL70, DL71)	13
V57 (DL70, DL71)	7
I02	12
I03	11
I05	11
I07	11
DL72, 73, 76, 77	
V01	20
V03	21
V04	22
V24-26	22
V27-29	21
V33-35	21
V40, 41, 43	21
V48-51	22
V52-56	21
V57 (DL72, DL73)	23
V58 (DL76, DL77)	8
V59 (DL72, DL73)	8
I02	22
I03	21
I05	21
I07	21
All others	7

Table III-2. Test Case Selection (continued)	
Test Case Name	Selection Expression Number
DL80, 81, 84, 85	
V01	10
V03	11
V04	12
V36-39	12
V40-43	11
V45	11
V46	13
V47	7
DL82, 83, 86, 87	
V01	20
V03	21
V04	22
V36-39	22
V40-43	21
V45	21
V46	23
All others	7
DS10	
N01	36
N03-N13	36
DS20	
N01-N14	3
DS40	
N01-N15	4
DS50	
N15-N17	6
DS60	

Table III-2. Test Case Selection (continued)	
Test Case Name	Selection Expression Number
N15	17
N17	17
DS70	
N02	15
NET3	
DS40_1_1	14
DS40_1_2	14
DS40_1_3	14
DS40_1_4	14
DS40_2_1	14
DS70_2_2	14
DS70_2_3	14
DS80_2_4	14
DS70_4_2a	14
DS70_4_2b	14
DS70_4_3	14
DS70_4_4	14
DS74_5_1	14
DS10_7_1	37
DS10_7_2	3
DS10_7_4	3
DS40_8_1_1	4
DS40_8_2_2	4
DS70_8_4_2	14
DS40_8_6_1	4
DS40_8_6_2	4
DS10_8_7	38

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